DOCUMENT RESUME

ED 062 952 HE 003 091

AUTHOR	Haight, Michael J.; And Others
TITLE	A Resource Requirements Prediction Model (RRPM-1): Input Specifications.
INSTITUTION	Western Interstate Commission for Higher Education, Boulder, Colo. National Center for Higher Education Management Systems.
SPONS AGENCY	National Center for Educational Research and Development (DHEW/OE), Washington, D.C.
REPORT NO	TR-23
PUB DATE	Nov 71
CONTRACT	OEC-0-8-980708-4533(010)
NOTE	156p.
EDRS PRICE	MF-$0.65 HC-$6.58
DESCRIPTORS	*Administrator Guides; *Educational Administration; *Higher Education; *Institutional Administration; *Management; *Management Information Systems

ABSTRACT

This report is one in a series written on the Resource Requirements Prediction Model (RRPM-1) developed by the National Center for Higher Education Management Systems (NCHEMS). This particular document is designed to assist the institutional user of the RRPM-1 in preparing the data files required for the operation of the model. It is important to note that specialized versions of the RRPM-1 system, e.g., Community College, 4-year College, will require some modification to the input structure; thus, this document should not be used by those institutions planning to implement these specialized versions. (Author/HS)

ED 062 952

A RESOURCE REQUIREMENTS PREDICTION MODEL (RRPM-1): INPUT SPECIFICATIONS

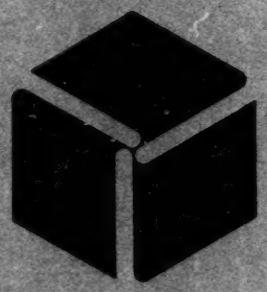
Technical Report 23

A RESOURCE REQUIREMENTS PREDICTION MODEL (RRPM-1): INPUT SPECIFICATIONS

TECHNICAL REPORT 23

HE 003 091

National Center for Higher Education Management Systems at WICHE



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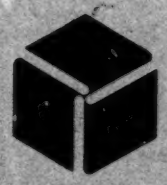

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- facilitate exchange of comparable data among institutions.
- facilitate reporting of comparable information at the state and national levels.

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NATIONAL CENTER FOR HIGHER EDUCATION MANAGEMENT

SYSTEMS AT WICHE

A RESOURCE REQUIREMENTS PREDICTION MODEL (RRPM-1): INPUT SPECIFICATIONS

NCHEMS Technical Report 23

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NCHEMS is supported by the U. S. Office of Education,
National Center for Education Research and Development
Division of Research and Development Resources

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November 1971

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ACKNOWLEDGMENTS

We wish to express our gratitude to the following individuals for their invaluable contributions which greatly benefited the outcome of this manual.

Frank Barrett
New Mexico Junior College

John Busby
Humboldt State College

Keith Evans
University of Michigan

Jerry Kissler
Washington State University

A special thanks to Keith Evans for providing the procedures in calculating space and facilities use.

Furthermore, we are especially indebted to Becky Manzanares for producing the input forms and Kathy Scott and Phyllis Howe for their secretarial support.

PREFACE

RRPM-1 Documentation

This publication is part of the documentation for the initial NCHEMS Resource Requirements Prediction Model, RRPM-1. The total documentation package consists of a number of publications, a set of computer programs, and a set of visuals to support training. These materials are available individually or in sets. Three sets of documentation have been developed for various purposes.

A. One set of documents is addressed to administrators and/or managers of higher education institutions. It consists of three documents that describe the structure of the model and its use in an institution of higher education:

NCHEMS Technical Report 19, A Resource Requirements Prediction Model (RRPM-1): An Introduction to the Model

NCHEMS Technical Report 20, A Resource Requirements Prediction Model (RRPM-1): Guide for the Project Manager

NCHEMS Technical Report 21, A Resource Requirements Prediction Model (RRPM-1): Report on the Pilot Studies

The Introduction is addressed to higher education administrators, specifically the top administrator who must make a decision whether or not to implement RRPM. It traces briefly the development of RRPM, its design objectives, testing and implementation at pilot institutions, and the resources required for implementation. It also lists some evaluations by the pilot institutions. The Introduction is based in part on the initial description of the model published in January 1971, The Resource Requirements Prediction Model 1 (RRPM-1): An Overview. The material in this document is now contained in the Introduction and in the Guide. The Guide provides information on the structure of the model and the data required by the model to simulate the institution. In addition, the Guide discusses the process of implementation with special attention to modifying the model, testing it, and training personnel in understanding and using the model. Also included in the Guide is an extensive annotated bibliography of literature related to planning in higher education.

B. The second set of documentation is technical information of interest to the systems analyst and the programmer. This documentation set consists of:

NCHEMS Technical Report 22, A Resource Requirements Prediction Model (RRPM-1): Programmer's Manual

NCHEMS Technical Report 23, A Resource Requirements Prediction Model (RRPM-1): Input Specifications

RRPM-1 Input-Output Package

Computer Programs for RRPM System

The Programmer's Manual discusses the details of the RRPM-1 computer programs. It also contains an algebraic representation of RRPM-1 that will be useful in understanding the analytical details of the model. The inputs required for RRPM are described in the Input Specifications. Included are blank input forms for manual data input. Samples of input forms completed for a hypothetical institution and the output reports generated from the sample input data are contained in the Input-Output package. This will facilitate the testing of the programs using the test data set provided on tape.

C. The third set in the documentation package for RRPM-1 contains materials to aid in training on the model. At the present time this package contains:

Resource Requirements Prediction Model (RRPM-1) Technical Workshop Notes

RRPM-1 Visual Aids

The Notes are hard copy reproductions of the visual aids used at the RRPM-1 Technical Workshop conducted by NCHEMS. The RRPM-1 Visual Aids are duplicates of the visuals used in the RRPM-1 Technical Workshop. These materials are made available to encourage institutions to undertake training of their personnel in the use of the model. Additional materials may be added at a later date.

The RRPM system was developed under a USOE Contract No. OEC-0-8-980708-4533(010). The development cost was supplemented in part by the pilot institutions that gave much of their time and resources to testing and implementing the model. The results of this cooperative effort are available to all interested parties at a nominal cost to cover reproduction and distribution. Further details regarding the RRPM project can be obtained by writing to:

Mr. James S. Martin
RRPM Project Manager
National Center for Higher Education
Management Systems at WICHE
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Boulder, Colorado 80302

The following table attempts to aid the reader by identifying the relevant areas of the documentation package. The table is based on different levels of interest in the materials relative to the reader's role in implementating and using the RRPM-1 system. The coding in the table refers to the chapter or section in the Technical Reports; e.g. TR 19-5 refers to NCHEMS Technical Report 19, A Resource Requirements Prediction (RRPM-1): An Introduction to the Model, Section 5.

	ADMINISTRATOR/ EXECUTIVE USER	PROJECT MANAGER	ANALYST/ PROGRAMMER
IMPLEMENTATION	TR19-7	TR19-7 TR20-2,8	TR22-5
MODEL USES	TR19-5	TR20-7	TR22-3
PILOT TEST	TR19-4,6 TR21	TR19-4 TR21	TR21
STRUCTURE	TR19-5 TR20-4	TR20-4 TR22-2	TR20-4 TR22-2
OUTPUTS	TR19-A,B	TR19-A,B TR20-7 TR22-4	TR22-4
INPUTS	--------	TR20-5 TR23	TR22-1 TR23
HARDWARE	--------	TR20-3 TR21-1 TR22-2,4	TR22-2,4,5

I. INTRODUCTION

The purpose of this document is to assist the institutional user of the Resource Requirements Prediction Model (RRPM-1) in preparing the data files required for the operation of the model. This document specifically refers to those institutional inputs which drive the two prediction programs of the RRPM-1.3 system. It is important to note that specialized versions of the RRPM-1 system, e.g., Community College, Four-Year College, will require some modification to the input structure and thus, this document should not be used by those institutions planning to implement these specialized versions.

Other inputs are required for using the experimental mode of the model and for utilizing various options of the Report Module. These inputs are discussed in the Programmer's Manual.[1]

Sample input forms are provided throughout the text of this document as a guide for the reader. In addition, a complete set of input forms is provided in the Programmer's Manual.

II: GENERAL FORMAT

There are three major categories of input data elements for RRPM-1:

1. Parameter specifications, specified as P
2. Institutional characteristics, specified as I
3. Estimation equation coefficients, specified as E

Each category has been assigned an alphabetic prefix to identify the record types within it. The remainder of this document has been divided into two sections to correspond with the two programs of the prediction module (RP and RQ) of the RRPM-1 system.

The input records are sequenced according to record type number (NN), which is always indicated in positions 71 and 72 of the input record. This sequence is the prescribed order to arrange the input data file to RRPM-1. (See Appendix 1.) Unless specifically stated otherwise, all input records must be included along with their correct identification numbers. This is true even if the records contain all zero entries in the data fields. The user is also cautioned that, in many cases, the number of records is dependent upon the dimension levels as specified in record type P-01.

The description of each NN type is structured, where appropriate, in the following format:

1. Description of data
2. Number of records
3. FORTRAN variable
4. Access and generation of data
5. Format of input data

The "description of data" tells the user what the data are and what dimensions are included.

"Number of records" defines either the explicit number of records or how the number may be derived.

The "FORTRAN variable" is the name used in the computer programs.

"Access and generation of data" explains the structure of data; in some cases, it indicates how the data are derived. If data within the NN type are descriptive (e.g., salary schedules for faculty is self-explanatory), no explanation is provided.

"Format of input data" is the FORTRAN format statement for the FORTRAN variable and its associated identification numbers.

III: INPUT SPECIFICATIONS FOR PREDICTION MODULE PART 1 (RP)

Record Type No. P-01: DATA SET DESIGNATIONS

Description: This record type designates the FORTRAN logical unit numbers to handle the Input/Output operations.

Number of Records: 1

FORTRAN Variables:

File	Contents
INREG	- Estimation equation constants and coefficients
INCAR	- Run parameters
INIC	- Input file for ICLM for PCS 1.1/1.2
INPOL	- Institutional characteristics
INENR	- Student enrollments
OUTDEV	- Output variables used by the Report Module
ISCR	- Work file to pass data from PM-1 part 1(RP) to PM-1 part 2(RQ)
IPMIN	- Data for Degree Costs Program
OFILE	- ICLM intermediate storage file for PCS sub-programs 1.3 and 1.4
IPRT	- Line printer

Access and Generation: This record type is read in on FORTRAN logical unit number 5.

For each of the data sets, the user must specify FORTRAN logical unit numbers.

NOTE: FORTRAN logical unit numbers are installation dependent.

Format: INREG,INCAR,INIC,INPOL,INENR,OUTDEV,ISCR,IPMIN,OFILE,IPRT,NN

(10X,10I5,10X,I2,8X)

Record Type No. P-02: INSTITUTIONAL DIMENSIONS

Description: This record type specifies the maximum number within each dimension category.

Number of Records: 1

		Max.
FORTRAN Variables:	NDISC - number of disciplines/departments	90
	NLEVF - number of faculty ranks	5
	NLEVC - number of course levels	4
	NLEVS - number of student levels	7
	NRK - number of nonacademic ranks	4
	NINS - number of instruction types	4
	NMAJ - number of student majors	90

Format: NDISC,NLEVF,NLEVC,NLEVS,NRK,NINS,NMAJ,NN

(10X,7I5,25X,I2,8X)

Right Justify All Entries Unless Otherwise Indicated

Page ____ of ____

DATA SET DESIGNATORS

1-10	D A T A S E T S	P-01
14-15	11	
19-20	15	
24-25	12	
29-30	14	
34-35	12	
39-40	14	
44-45	13	
49-50	10	
54-55	111	
59-60	16	
71-72	01	

Estimation Equation Coefficients File
Run Characteristics File
ICLM Input File (PCS 1.1/1.2)
Institutional Characteristics File
Enrollment File
Report Work File
Scratch Work File
Degree Cost File
ICLM Output File (PCS 1.3/1.4)
Line Printer File

INSTITUTIONAL DIMENSIONS

1-10	D I M E N S I O N S	P-02
14-15	20	
19-20	14	
24-25	13	
29-30	13	
34-35	14	
39-40	13	
44-45	65	
71-72	02	

Number of Disciplines
Number of Faculty Ranks
Number of Course Levels
Number of Student Levels
Number of Non-Academic Ranks
Number of Instructional Types
Number of Student Majors

Record Type No. P-03: DATE/RUN PARAMETERS

Description: This record specifies the month, day, year, and run number.

Number of Records: 1

FORTRAN Variables:

MD1	- month
MD2	- day
MD3	- year
NYY	- run number

Format: MD1,MD2,MD3,NYY,NN

(10X,4I2,52X,I2,8X)

Record Type No. P-04: YEARS/BASE PARAMETERS

Number of Records: 1

FORTRAN Variables: NYEARS - number of predicted years (ITERATIONS)

KBASE - base year

SALAD(1) - The ratio of the institution's special session instruction term to the institution's academic year.

SALAD(2) - The ratio of the institution's extension instruction term to the institution's academic year.

Access and Generation:

SALAD(1) is used to define the proportion of faculty FTE teaching during the Special Session term (PCS 1.3).

SALAD(2) is used to define the proportion of faculty FTE teaching during the Extension term (PCS 1.4).

E.g.; The full time equivalent for teaching at an institution during summer school may be 3/9. Thus, the entry for SALAD(1) would be .333.

Format: NYEARS,KBASE,SALAD(1),SALAD(2),NN

(10X,I2,I4,2F5.2,44X,I2,8X)

Record Type No. P-05: INSTRUCTION SUBPROGRAM DATA INDICATORS

Description: This record type indicates which PCS instruction subprograms are to be executed. The entries are either a (1), to indicate "execution" for a subprogram; or a (0), to indicate "no execution" for a subprogram.

Number of Records: 1

FORTRAN Variables: ISINC(1) - General Academic Instruction
ISINC(2) - Occupational + Vocational Instruction
ISINC(3) - Special Session Instruction
ISINC(4) - Extension (for credit) Instruction

Access and Generation: A "2" in ISINC(1) will generate intermediate output for PCS programs 1.1/1.2. The other subprograms do not have the option of using "2."

Format: ISINC,NN
(10X,4I1,56X,I2,8X)

Record Type No. P-06: STUDENT LEVEL AGGREGATION FOR PCS 1.1/1.2 AND LIMITS OF OCCUPATIONAL AND VOCATIONAL INSTRUCTION (PCS 1.2)

Description: This record type indicates the ending student level numbers for the grouping of the student levels, and indicates the start of PCS subprogram 1.2 for disciplines and majors.

Number of Records: 1

FORTRAN Variables: NLS - ending student level no. for lower division

NUS - ending student level no. for upper division

NGS - ending student level no. for graduate division

NSS - ending student level no. for special students

NDO - no. of first disciplines/departments for subprogram 1.2

MNO - no. of first major for subprogram 1.2

Access and Generation: Assume that an institution has seven student levels. Further, the institution refers to freshmen and sophomores as lower division, juniors and seniors as upper division, two graduate levels as the graduate division, and the special student level as special students. In this case:

NLS = 2

NUS = 4

NGS = 6

NSS = 7

Also, the sequence number of the initial discipline/department for PCS 1.2 is 15 and the sequence number of the initial major for PCS 1.2 is 42.

Format: NLS,NUS,NGS,NSS,NDO,MNO,NN

(10X,4I1,2I2,52X,I2,8X)

Right Justify All Entries Unless Otherwise Indicated

RUN CHARACTERISTICS

Month Day Year
Run Number

1-10 D A T E / R U N
11-16 1/ 21 4 71
17-18 01
71-72 03

P-03

Number of Predicted Years
Base Year
Proportion of Special Session to Academic Year
Proportion of Extension Instruction to Academic Year

1-10 Y E A R S / B A S E
11-12 04
13-16 1971
17-21 .333 Enter Decimal Point
22-26 .50 Enter Decimal Point
71-72 04

P-04

INSTRUCTION SUBPROGRAM INDICATORS

Does Input For PCS 1.1 Follow? (0 or Blank = No, 1 = Yes)
Does Input For PCS 1.2 Follow?
Does Input For PCS 1.3 Follow?
Does Input For PCS 1.4 Follow?

1-10 I S I N C
11 2 ← 2 = Yes Plus Intermediate Output Request
12 1
13 0
14 0
71-72 05

P-05

STUDENT LEVEL AGGREGATION

Lower Division Is Student Levels
Upper Division Is Student Levels
Graduate Division Is Student Levels
Special Students are Student Levels
Starting Discipline/Department Number For PCS 1.2
Starting Major Number For PCS 1.2

1-10 S T U D L V L S
1 To 11 2
3 To 12 4
5 To 13 6
7 To 14 7
15-16 1.5
17-18 4.2
71-72 06

P-06

Record Type No. P-07: CROSSOVER OF MAJORS TO DISCIPLINES FOR PCS 1.1/1.2

Description: This record type identifies each major to a unique discipline/department. Each record contains up to 10 majors for each discipline/department and is used for purposes of academic FTE calculations in the Organized Research Program (PCS 2.0).

Number of Records: The total record count is equal to the number of disciplines/departments or equals 1 if crossover not needed.

FORTRAN Variable: MAJOR(M)

Access and Generation: If a crossover is not needed, enter 999 in MAJOR(1). All other records are not required.

Format: (MAJOR(M),M=1,10),NN,I

(10X,10I3,30X,I2,6X,I2)

MAJOR TO DISCIPLINE

Used to identify graduate enrollment majors to a discipline for projection of research costs. Enter up to 10 major # per discipline. Enter 999 in first record to bypass. Right justify all entries.

P-07

1-10 |M|A|J| |X|O|V|E|R| (All Records) 71-72 |0|7| (All Records)

	1	2	3	4	5	6	7	8	9	10	Disc #
11	999	14	17	20	23	26	29	32	35	38	79 01
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79
11		14	17	20	23	26	29	32	35	38	79

Record Type No. P-08: DISCIPLINE/DEPARTMENT NAMES

Description: These records define discipline/department names. The name may be no more than 12 characters.

Number of Records: The number of disciplines/departments.

FORTRAN Variable: DISNAM(I,IJ)

Format: (DISNAM(I,IJ),IJ=1,3),NN

(24X,3A4,34X,I2,8X)

DISCIPLINE NAMES

P-08

1-10 |D,I,S,C,-,N,A,M,E,| (All Records) 71-72 |0,8| (All Records)
Disc. #

25 |H,I,S,T,O,R,Y,.....| 79 |.1| (Right Justify)
25 |E,N,G,L,I,S,H,.....| 79 |.2|
25 |M,A,T,H,.....| 79 |.3|
25 |B,I,O,L,O,G,Y,.....| 79 |.4|
25 |B,O,T,O,N,Y,.....| 79 |.5|
25 |Z,O,O,L,O,G,Y,.....| 79 |.6|
25 |C,H,E,M,I,S,T,R,Y,...| 79 |.7|
25 |P,h,y,S,I,C,S,.....| 79 |.8|
25 |E,L,E,M,.,E,D,U,....| 79 |.9|
25 |S,E,C,O,N,D,.,E,D,U,.| 79 |1.0|
25 |P,h,y,S,I,C,A,L,E,D,U| 79 |1.1|
25 |A,C,C,O,U,N,T,I,N,G,.| 79 |1.2|
25 |E,C,O,N,O,M,I,C,S,...| 79 |1.3|
25 |M,A,R,K,E,T,I,N,G,...| 79 |1.4|
25 |.....| 79 |..|
25 |.....| 79 |..|
25 |.....| 79 |..|
25 |.....| 79 |..|

Record Type No. P-09: COURSE LEVEL NAMES

Description: These records define course level names. The name may be no more than 16 characters.

Number of Records: The number of course levels.

FORTRAN Variable: CLNAME(I,IJ)

Format: (CLNAME(I,IJ),IJ=1,4),NN

(24X,4A4,30X,I2,8X)

COURSE LEVEL NAMES

1-10 |C,O,U,R,S,E,-,L,E,V| (All Records) 71-72 |0,9| (All Records)

P-09

		Level #
25	LOWER DIVISION	80 |1|
25	UPPER DIVISION	80 |2|
25	GRAD DIVISION	80 |3|
25		80 |4|

Record Type No. I-01: GENERAL ACADEMIC AND OCCUPATIONAL & VOCATIONAL INSTRUCTION INDUCED COURSE LOAD MATRIX (PCS 1.1/1.2)

Description: Each record indicates the number of credit hours or proportion of average load induced by the average student majoring in a field of study at a student level, upon each course level within a discipline/department. This entry is for an institutionally defined term.

Number of Records: The number of majors times the number of student levels times the number of disciplines.

FORTRAN Variable: ICLM(M,SL,I,J)

Access and Generation: This data may be derived from the institution's student data system. From this information, the total number of student credit hours generated by each student level within each major at every course level in each discipline/department should be divided by the number of students within each major/student level category.

Sequence is: course within discipline/department within student level within field of study (major).

The student data system should define the students as to major and student level and the course as to discipline/department and course level.

NOTE: If a percentage of average load is chosen, then the entry is a proportion (i.e., 5%=.05 not 5.0). See Average Student Credit Hour Load (I-09).

Format: ICLM(M,SL,I,J),NN,M,SL,I

(10X,4F10.6,20X,I2,2X,3I2)

INDUCED COURSE LOAD MATRIX FOR PCS 1.1/1.2

Page ____ of ____

1-10 |I,C,L,M, ... | (All Records) 71-72 |0,1| (All Records)

I-01

Enter Decimal Point With Each Value

Course Level 1	Course Level 2	Course Level 3	Course Level 4	Stud Maj #	Level #	Disc #
11 2	21	31	41	75 .1	.2	.4
11 1	21 1	31	41	75 .1	.2	.5
11 2	21 1	31	41	75 .1	.2	.6
11	21	31	41	75 .1	.2	.7
11	21	31	41	75 .1	.2	.8
11	21 . . 1 . .3	31	41	75 .1	.2	.9
11	21 . . 2 . .0	31	41	75 .1	.2	1.0
11	21 4	31	41	75 .1	.2	1.1
11	21 1	31	41	75 .1	.2	1.2
11 2	21 4	31	41	75 .1	.2	1.3
11	21 1	31	41	75 .1	.2	1.4
11	21 5	31 . . 8 . .0	41	75 .1	.3	.1
11	21 1	31 6	41	75 .1	.3	.2
11	21	31	41	75 .1	.3	.3
11	21	31	41	75 .1	.3	.4
11	21	31	41	75 .1	.3	.5
11	21	31	41	75 .1	.3	.6

25
31

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October 1971

INDUCED COURSE LOAD MATRIX FOR PCS 1.1/1.2

Page ____ of ____

1-10 [I,C,L,M, ...] (All Records) 71-72 [0,1] (All Records) I-01

Enter Decimal Point With Each Value

Course Level 1	Course Level 2	Course Level 3	Course Level 4	Stud Maj Level Disc # # #
11 [. . .3. .5]	21 [. . . . .2]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .1]
11 [. . .2. .8]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .2]
11 [. . .1. .5]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .3]
11 [. . .1. .0]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .4]
11 [. . . . .2]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .5]
11 [. . . . .4]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .6]
11 [. . . . .2]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .7]
11 [. . . . .]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .8]
11 [. . .1. .0]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 .9]
11 [. . . . .8]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 1.0]
11 [. . .1. .5]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 1.1]
11 [. . . . .4]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 1.2]
11 [. . .1. .5]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 1.3]
11 [. . . . .]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .1 1.4]
11 [. . . . .]	21 [. . .8. .2]	31 [. . . . .]	41 [. . . . .]	75 [.1 .2 .1]
11 [. . . . .1]	21 [. . .1. .4]	31 [. . . . .]	41 [. . . . .]	75 [.1 .2 .2]
11 [. . . . .1]	21 [. . . . .]	31 [. . . . .]	41 [. . . . .]	75 [.1 .2 .3]

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INDUCED COURSE LOAD MATRIX FOR PCS 1.1/1.2

1-10 |I,C,L,M, ... | (All Records) 71-72 |0,1| (All Records)

I-01

Enter Decimal Point With Each Value

Course Level 1	Course Level 2	Course Level 3	Course Level 4	Stud Maj #	Level #	Disc #
11	21	31	41	75	.1	.3	.7
11	21	31	41	75	.1	.3	.8
11	21	31 .8	41	75	.1	.3	.9
11	21	31 .1.2	41	75	.1	.3	1.0
11	21	31	41	75	.1	.3	1.1
11	21	31	41	75	.1	.3	1.2
11	21	31 .8	41	75	.1	.3	1.3
11	21	31	41	75	.1	.3	1.4
11 .2.8	21	31	41	75	.2	.1	.1
11 .3.5	21 .2	31	41	75	.2	.1	.2
11 .1.5	21	31	41	75	.2	.1	.3
11 .1.5	21	31	41	75	.2	.1	.4
11 .1	21	31	41	75	.2	.1	.5
11 .2	21	31	41	75	.2	.1	.6
11 .1	21	31	41	75	.2	.1	.7
11	21	31	41	75	.2	.1	.8
11 .1.0	21	31	41	75	.2	.1	.9

Record Type No. I-02: RATIO OF WEEKLY STUDENT CONTACT HOURS TO STUDENT CREDIT HOURS FOR PCS 1.1/1.2

Description: Each record contains the ratio of student contact hours to student credit hours for four instruction types for each course level within each discipline/department.

Number of Records: The number of disciplines/departments times the number of course levels.

FORTRAN Variable: WSHCO(I,J,K)

Format: (WSCHO(I,J,K)K=1,4),NN,I,J

(10X,4F10.3,20X,I2,4X,2I2)

RATIO OF CONTACT TO CREDIT HOURS FOR PCS 1.1/1.2

Disc # / Page ___ of ___

1-10 [C,O,N,T,/,C,R,E,D,] (All Records) 71-72 [0,2] (All Records) 77-78 [,/] (Right Justify)

Enter Decimal Point With Each Ratio

I-02

Course Level		Instruction Type	Contact Hours By Type		Total Credit Hours This Level			
1	1.	LECTURE	633	÷	1109	=	11	[.571]
	2.	DISCUSSION	396	÷		=	21	[.357]
	3.	LAB	80	÷		=	31	[.072]
	4.			÷		=	41	[ ]
						80		[1]
2	1.	LECTURE	538	÷	1121	=	11	[.480]
	2.	DISCUSSION	448	÷		=	21	[.400]
	3.	LAB	135	÷		=	31	[.120]
	4.			÷		=	41	[ ]
						80		[2]
3	1.	LECTURE	174	÷	464	=	11	[.375]
	2.	DISCUSSION	249	÷		=	21	[.536]
	3.	LAB	41	÷		=	31	[.087]
	4.			÷		=	41	[ ]
						80		[3]
4	1.			÷		=	11	[ ]
	2.			÷		=	21	[ ]
	3.			÷		=	31	[ ]
	4.			÷		=	41	[ ]
						80		[4]

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Record Type No. I-03: AVERAGE SECTION SIZE FOR PCS 1.1/1.2

Description: This record type specifies the average section size for each instruction type within each course level within each discipline/department.

Number of Records: The total record count is equal to the number of disciplines/departments times the number of course levels.

FORTRAN Variable: AVESEC(I,J,K)

Access and Generation: The average section size may be generated by dividing the number of sections into the total number of students enrolled in those sections within each instruction type within each course level within each discipline/department.

Format: (AVESEC(I,J,K),K=1,4),NN,I,J
(10X,4F10.3,20X,I2,4X,2I2)

AVERAGE SECTION SIZE FOR PCS 1.1/'.2

Page ____ of ____

1-10 |A,V,G, ,S,E,C, ,S,Z| (All Records) 71-72 |0,3| (All Records)

I-03

Enter Decimal Point With Each Size

	Instruction Type 1	Instruction Type 2	Instruction Type 3	Instruction Type 4	Disc #	Crse Level #
11	4.0	21 2.5	31 1.5	41	77 .1	80 1
11	4.0	21 2.5	31 1.5	41	77 .1	80 2
11	2.8	21 2.0	31 1.0	41	77 .1	80 3
11	4.0	21 2.5	31 1.5	41	77 .2	80 1
11	4.0	21 2.5	31 1.5	41	77 .2	80 2
11	2.5	21 2.0	31 1.5	41	77 .2	80 3
11	3.0	21 2.5	31 2.0	41	77 .3	80 1
11	2.8	21 2.2	31 1.8	41	77 .3	80 2
11		21	31	41	77 .3	80 3
11	3.0	21 2.5	31 1.8	41	77 .4	80 1
11		21	31	41	77 .4	80 2
11		21	31	41	77 .4	80 3
11	2.8	21 2.2	31 1.8	41	77 .5	80 1
11	2.5	21 2.0	31 1.6	41	77 .5	80 2
11	2.2	21 1.8	31 1.2	41	77 .5	80 3
11	2.8	21 2.2	31 1.8	41	77 .6	80 1
11	2.5	21 2.0	31 1.5	41	77 .6	80 2

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Record Type No. I-04: FACULTY FTE DISTRIBUTION FOR PCS 1.1/1.2

Description: This record type indicates the proportion of faculty contact hours taught by each faculty rank within each instruction type, within each course level, within each discipline/department. The sum of all entries for each record should be 1.0.

Number of Records: The number of disciplines/departments times the number of course levels times the number of instruction types.

FORTRAN Variables:

DIVC01	(I,J,KK)	-	Instruction type 1
DIVC02	(I,J,KK)	-	Instruction type 2
DIVC03	(I,J,KK)	-	Instruction type 3
DIVC04	(I,J,KK)	-	Instruction type 4

Access and Generation: The user also has the following options available:

1. Entries are identical for all course levels within each discipline/department for each instruction type set.

   If this option is desired, enter 666. in the first data field of record no. 2, within each instruction type set, followed by the remaining records for each discipline/department.

If this option is exercised, the number of records within each instruction type set will be equal to the number of disciplines/ departments + 1.

2. Entries are identical for all disciplines/departments with distinctions made only by course level within each instruction type set.

   If this option is desired, enter 888. in the first data field of record no. 2, within each instruction type set, followed by the records for each course level.

   If this option is exercised, the number of records within each instruction type set will be equal to the number of course levels + 1.

3. Entries are identical for all disciplines/departments and all course levels within each instruction type set.

   If this option is desired, enter 999. in the first data field of record no. 2, within each instruction type set.

   This option will require two records for each instruction type set.

4. Data for current instruction type set are identical to data for previous instruction type set.

If this option is desired, enter 777. in the first data field of record no. 1, within each instruction type set.

The option will require only one record per instruction type set that has data identical to preceding instruction type set.

Format: DIVCOX (I,J,KK,KK=1,5)NN,I,J,X

(10X,5F10.3,10X,I2,2X,3I2)

FACULTY FTE DISTRIBUTION BY RANK FOR PCS 1.1/1.2

Page ____ of ____

1-10 [F,A,C, ,D,I,S,T, ,] (All Records) 71-72 [0,4] (All Records)

I-04

Enter Decimal Point With Each Distribution

	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #	Course Level #	Instr Type #
	11 .35	21 .25	31 .30	41 .10	51	75-76 1	77-78 1	80 1
	11 .20	21 .15	31 .25	41 .40	51	75-76 1	77-78 2	80 1
	11 .35	21 .35	31 .30	41	51	75-76 2	77-78 1	80 1
	11 .40	21 .20	31 .30	41 .10	51	75-76 2	77-78 2	80 1
	11 .20	21 .35	31 .35	41 .10	51	75-76 1	77-78 1	80 2
	11 .15	21 .30	31 .25	41 .30	51	75-76 1	77-78 2	80 2
	11 .20	21 .35	31 .20	41 .25	51	75-76 2	77-78 1	80 2
	11 .20	21 .25	31 .35	41 .20	51	75-76 2	77-78 2	80 2
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80
	11	21	31	41	51	75-76	77-78	80

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Record Type No. I-05: AVERAGE FACULTY LOAD FOR PCS 1.1/1.2

Description: This record type specifies the average workload expressed as faculty contact hour per FTE faculty. For every course level within a discipline/department within instruction type there will be one record with five entries, one per faculty rank.

Number of Records: The number of disciplines/departments times the number of course levels times the number of instruction types.

FORTRAN Variables:

FACLD1	(I,J,KK)	-	Instruction type 1
FACLD2	(I,J,KK)	-	Instruction type 2
FACLD3	(I,J,KK)	-	Instruction type 3
FACLD4	(I,J,KK)	-	Instruction type 4

Access and Generation: The data may be an institutional policy or may be derived from a faculty activity analysis.

The user also has the following options available:

1. Entries are identical for all course levels within each discipline/department for each instruction type set.

   If this option is desired, enter 666. in the first data field of record no. 2, within each instruction type set, followed by the remaining records for each discipline/department.

If this option is exercised, the number of records within each instruction type set will be equal to the number of disciplines/ departments + 1.

2. Entries are identical for all disciplines/departments with distinctions made only by course level within each instruction type set.

   If this option is desired, enter 888. in the first data field of record no. 2, within each instruction type set, followed by the records for each course level.

   If this option is exercised, the number of records within each instruction type set will be equal to the number of course levels + 1.

3. Entries are identical for all disciplines/departments and all course levels within each instruction type set.

   If this option is desired, enter 999. in the first data field of record no. 2, within each instruction type set.

   This option will generate two records for each instruction type set.

4. Data for current instruction type set are identical to data for previous instruction type set.

If this option is desired, enter 777. in the first data field of record no. 1, within each instruction type set.

The option will require only one record per instruction type set that has data identical to preceding instruction type set.

Format: FACLDX (I,J,KK,KK=1,5)NN,I,J,X
(10X,5F10.3,10X,I2,2X,3I2)

AVERAGE FACULTY LOAD FOR PCS 1.1/1.2

1-10 |A,V,E, ,F,A,C, ,L,D| (All Records) 71-72 |0,5| (All Records)

I-05

Enter Decimal Point With Each Load

	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #	Course Level #	Instr Type #
11	12.0	12.0	15.0	15.0		75-76 /1	77-78 /1	80 /1
11	9.	12.0	15.	17.0		75-76 /1	77-78 /2	80 /1
11	12.9	14.0	16.0	18.0		75-76 /1	77-78 /3	80 /1
11	12.9	15.9	15.0	16.9		75-76 /2	77-78 /1	80 /1
11	10.0	12.0	15.0	15.0		75-76 /2	77-78 /2	80 /1
11	8.	10.0	12.9	14.0		75-76 /2	77-78 /3	80 /1
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80
11						75-76	77-78	80

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Record Type No. I-06: NONACADEMIC STAFF SALARY SCHEDULE FOR PCS PRIMARY PROGRAMS (1.0-3.0) AND ACADEMIC ADMINISTRATION AND PERSONNEL DEVELOPMENT (PCS 4.6)

Description: This record type specifies the salary schedule for four ranks of nonacademic personnel within each discipline/department. Benefits will not appear in the output as a separate line item; thus, salary schedules should include staff benefits.

Number of Records: The total number of disciplines/departments.

FORTRAN Variable: NACSAL(I,N)

Access and Generation: The salary is an average per FTE for each nonacademic rank.

Format: (NACSAL(I,N),N=1,4),NN,I

(10X,4F10.2,20X,I2,6X,I2)

NONACADEMIC SALARIES FOR PCS PRIMARY PROGRAMS

1-10 [N,O,N,-,A,C, ,S,A,L] (All Records) 71-72 [0,6] (All Records)

I-06

Enter Decimal Point With Each Salary

	Rank 1	Rank 2	Rank 3	Rank 4	Disc #
11	13,000.	21 10,500.	31 5,000.	41	79 1
11		21	31 4,700.	41 4,250.	79 2
11	15,000.	21 12,000.	31 5,500.	41	79 3
11	12000.	21 8,600.	31 4,950.	41 3,780.	79 4
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79
11		21	31	41	79

Record Type No. I-07: ACADEMIC FACULTY SALARY SCHEDULES FOR PCS PRIMARY PROGRAMS (1.0-3.0)

Description: This specifies the salary schedule for five faculty ranks within each discipline/department. Benefits will not appear in the output as a separate line item; thus, salary schedules should include staff benefits.

Number of Records: The total record count is equal to the total number of disciplines/departments.

FORTRAN Variable: ACASAL(I,KK)

Access and Generation: The salary is an average per FTE for each academic rank.

Format: (ACASAL(I,KK),KK=1,5),NN,I

(10X,5F10.2,10X,I2,6X,I2)

ACADEMIC SALARIES FOR PCS PRIMARY PROGRAMS

I-07

1-10 F,A,C, ,S,A,L, , , (All Records) 71-72 0,7 (All Records)

Enter Decimal Point With Each Salary

	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #
11	17,000.	21 14,500.	31 11,500.	41 9,500.	51 6,800.	79 1
11	17,000.	21 14,500.	31 11,500.	41 9,500.	51 6,800.	79 2
11	18,000.	21 15,000.	31 12,000.	41 9,500.	51	79 3
11	18,000.	21 15,000.	31 12,000.	41 9,500.	51 6,800.	79 4
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79
11		21	31	41	51	79

Record Type No. I-08: GROWTH FACTORS FOR SALARY SCHEDULES

Description: This record type specifies annual growth factors for faculty salaries, academic administrator salaries, and nonacademic staff salaries by rank.

Number of Records: 1

FORTRAN Variables: ASINF1 - faculty salaries growth factor
ASINF2 - academic administrator salaries growth factor
ASINF3(N) - nonacademic salaries by rank N growth factor

Format: ASINF1,ASINF2,(ASINF3(N),N=1,4),NN
(10X,6F10.3,I2,8X)

SALARY GROWTH FACTORS

Enter Decimal Point For Each Factor.

1-10 |G,R,O,W,T,H,-,S,A,L|

I-08

ACADEMIC FACULTY	11	|.|0,6|
ACADEMIC ADMINISTRATORS	21	|.|0,4|
NONACADEMIC RANK 1	31	|.|0,4|
NONACADEMIC RANK 2	41	|.|0,3|
NONACADEMIC RANK 3	51	|.|0,5|
NONACADEMIC RANK 4	61	|.|0,7|
	71	|0,8|

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Record Type No. I-09: AVERAGE STUDENT CREDIT HOUR LOAD FOR PCS 1.1/1.2

Description: This record type defines the average credit hour load per student for seven student levels per major. This record type is used only when the ICLM data were entered as percentages of an average student's total credit load per term.

Number of Records: The total number of majors or 1.

FORTRAN Variable: DISICL(M,SL)

Access and Generation: If this record type is not needed enter 999. in the first data field; no further records are needed.

Format: (DISICL(M,SL),SL=1,7),NN,M

(10X,7F7.3,11X,I2,6X,I2)

AVERAGE LOAD BY MAJOR FOR PCS 1.1/1.2

Used Only If ICLM (I-01) Is In Percentages. Enter Decimal Point With Each Value

Page ____ of ____

1-10 |L,O,A,D,-,M,A,J,O,R| (All Records) 71-72 |0,9| (All Records)

I-09

Student Level 1	Student Level 2	Student Level 3	Student Level 4	Student Level 5	Student Level 6	Student Level 7	Major #
11 999.	18	25	32	39	46	53	79 0,1
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79
11	18	25	32	39	46	53	79

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Record Type No. I-10: INDUCED COURSE LOAD MATRICES FOR PCS SPECIAL SESSION AND EXTENSION (FOR CREDIT) INSTRUCTION SUBPROGRAMS (1.3 and 1.4)

Description: This record type specifies the data for the PCS Special Session (1.3) and/or PCS Extension Instruction subprograms (1.4). Each entry is the average number of credit hours per term taken by each student major within each discipline/department. Six disciplines/departments and three identifiers - the record type number, student major, and the record sequence number are required for each record.

Number of Records: The total number of majors times the number of records per major.

FORTRAN Variable: OSCHC(L,M,I)

Access and Generation: The total number of records for each major is

$$\left(\frac{\text{the total number of disciplines/departments} - 1}{6}\right) + 1 = \text{total record count}$$

If data exists for both PCS 1.3 and PCS 1.4, enter data for 1.3 first.

Format: (OSCHC(L,M,I),I=ILL,ILU),NN,M,JJ

(10X,6F10.3,I2,4X,2I2)

Note: This record type is not required if ISINC(3) and ISINC(4) are both set to "0". (Record type P-05)

ICLM FOR PCS 1.3/1.4

1-10 [I,C,L,M,-,S,S,/,E,I] (All Records) 71-72 [1,0] (All Records)

Enter Decimal Point With Each Value

I-10

Disc. # 1	Disc. # 2	Disc. # 3	Disc. # 4	Disc. # 5	Disc. # 6	Maj. #	Seq. #	
11 | 1.5	21 |	31 | 2.0	41 | 1.0	51 |	61 | 2.5	77 | 1	79 | 1	
Disc. # 7	Disc. # 8	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 | 4.0	21 | 3.0	31 |	41 |	51 |	61 |	77 | 1	79 | 2	
Disc. # 1	Disc. # 2	Disc. # 3	Disc. # 4	Disc. # 5	Disc. # 6	Maj. #	Seq. #	
11 | .5	21 | 6.0	31 | 3.5	41 |	51 | 2.5	61 |	77 | 2	79 | 1	
Disc. # 7	Disc. # 8	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 | 4.0	21 |	31 |	41 |	51 |	61 |	77 | 2	79 | 2	
Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 |	21 |	31 |	41 |	51 |	61 |	77 |	79 |	
Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 |	21 |	31 |	41 |	51 |	61 |	77 |	79 |	
Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 |	21 |	31 |	41 |	51 |	61 |	77 |	79 |	
Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 |	21 |	31 |	41 |	51 |	61 |	77 |	79 |	
Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Disc. #	Maj. #	Seq. #	
11 |	21 |	31 |	41 |	51 |	61 |	77 |	79 |	

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Record Type No. I-11: RATIO OF WEEKLY STUDENT CONTACT HOURS TO STUDENT CREDIT HOURS FOR PCS SPECIAL SESSION INSTRUCTION SUBPROGRAM (1.3)

Description: This record type specifies the ratio of weekly student contact hours to weekly student credit hours for the PCS Special Session Instruction subprogram (1.3).

Number of Records: The total number of disciplines/departments.

FORTRAN Variable: OWSHC1(I,K)

Format: (OWSHC1(I,K)K=1,4),NN,I

(10X,4F10.3,20X,I2,6X,I2)

Note: This record type is not required if ISINC(3) is set to "0" (Record type P-05).

RATIO OF CONTACT TO CREDIT HOURS FOR PCS 1.3

1-10 |C,O,N,T,/,C,R,E,D,| (All Records) 71-72 |1,1| (All Records)

I-11

Enter Decimal Point With Each Ratio

	Instruction Type	Contact Hours By Type		Total Credit Hours		
1.	_____	_____	÷		=	11
2.	_____	_____	÷		=	21
3.	_____	_____	÷	_____	=	31
4.	_____	_____	÷		=	41

Disc. # 79-80 |_,_| (Right Justify)

1.	_____	_____	÷		=	11
2.	_____	_____	÷		=	21
3.	_____	_____	÷	_____	=	31
4.	_____	_____	÷		=	41

Disc. # 79-80 |_,_| (Right Justify)

1.	_____	_____	÷		=	11
2.	_____	_____	÷		=	21
3.	_____	_____	÷	_____	=	31
4.	_____	_____	÷		=	41

Disc. # 79-80 |_,_| (Right Justify)

1.	_____	_____	÷		=	11
2.	_____	_____	÷		=	21
3.	_____	_____	÷	_____	=	31
4.	_____	_____	÷		=	41

Disc. # 79-80 |_,_| (Right Justify)

Record Type No. I-12: AVERAGE SECTION SIZE FOR SPECIAL SESSION INSTRUCTION SUBPROGRAM (PCS 1.3)

Description: This record type specifies the average section size for each instruction type within each discipline/department for PCS Special Session Instruction (1.3).

Number of Records: The total number of disciplines/departments.

FORTRAN Variable: OSECT1(I,K)

Access and Generation: The average section size may be generated by dividing the number of sections into the total number of students enrolled in those sections within each instruction type within each course level within each discipline/department.

Format: (OSECT1(I,K),K=1),NN,I
(10X,4F10.3,20X,I2,6X,I2)

Note: This record type is not required if ISINC(3) is set to "0" (Record type P-05).

AVERAGE SECTION SIZE FOR PCS 1.3

1-10 |A,V,G, ,S,E,C, ,S,Z| (All Records) 71-72 |1,2| (All Records)

Enter Decimal Point With Each Size

I-12

Instruction Type 1	Instruction Type 2	Instruction Type 3	Instruction Type 4	Disc #
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79
11	21	31	41	79

53 59

Record Type No. I-13: DISTRIBUTION OF FACULTY CONTACT HOURS FOR SPECIAL SESSION INSTRUCTION SUBPROGRAM (PCS 1.3)

Description: This record type indicates the proportion of faculty contact hours taught by each faculty rank within each instruction type within each discipline/department for Special Session Instruction. The sum of all entries for each record should be 1.0.

Number of Records: The total number of disciplines/departments times the total number of instruction types.

FORTRAN Variable: ODIV1(I,K,KK)

Format: (ODIV1(I,K,KK),KK=1,5),NN,I,K
(10X,5F10.3,10X,I2,4X,2I2)

Note: This record type is not required if ISINC(3) is set to "0" (Record type P-05).

FACULTY FTE DISTRIBUTION BY RANK FOR PCS 1.3

1-10 |F,A,C, ,D,I,S,T, , | (All Records) 71-72 |1,3| (All Records)

I-13

Enter Decimal Point With Each Distribution

Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #	Instr Type #
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80

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Record Type No. I-14: AVERAGE FACULTY LOAD FOR PCS SPECIAL SESSION INSTRUCTION SUBPROGRAM (1.3)

Description: This record type specifies the average contact hour faculty workload per faculty FTE. For each instruction type within each discipline/department, there will be one record with five entries, one per faculty rank.

Number of Records: The total number of disciplines/departments t... the total number of instruction types.

FORTRAN Variable: OLOAD1(I,K,KK)

Format: (OLOAD1(I,K,KK),KK=1,5),NN,I,K

(10X,5F10.3,10X,I2,4X,2I2)

Note: This record type is not required if ISINC(3) is set to "0" (Record type P-05).

AVERAGE FACULTY LOAD FOR PCS 1.3

1-10 |A,V,G, ,F,A,C, ,L,D| (All Records) 71-72 |1,4| (All Records)

I-14

Enter Decimal Point With Each Load

	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #	Instr Type #
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80

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63

Record Type No. I-15: RATIO OF WEEKLY STUDENT CONTACT HOURS TO STUDENT CREDIT HOURS FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)

Description: This record type specifies the ratio of weekly student contact hours to weekly student credit hours for the PCS Extension Instruction Subprogram (1.4).

Number of Records: The total number of disciplines/departments.

FORTRAN Variable: OWSCH2(I,K)

Format: (OWSCH2(I,K),K=1,4),NN,I

(10X,4F10.3,20X,I2,6X,I2)

Note: This record type is not required if ISINC(4) is set to "0" (Record type P-05).

RATIO OF CONTACT TO CREDIT HOURS FOR PCS 1.4

1-10 [C,O,N,T,/,C,R,E,D,_] (All Records) 71-72 [1,5] (All Records)

I-15

Enter Decimal Point With Each Ratio

	Instruction Type	Contact Hours By Type		Total Credit Hours		
1.	_____	_____	÷	_____	= 11	[. . . . .]
2.	_____	_____	÷		= 21	[. . . . .]
3.	_____	_____	÷		= 31	[. . . . .]
4.	_____	_____	÷		= 41	[. . . . .]

Disc. # 79-80 [.] (Right Justify)

1.	_____	_____	÷	_____	= 11	[. . . . .]
2.	_____	_____	÷		= 21	[. . . . .]
3.	_____	_____	÷		= 31	[. . . . .]
4.	_____	_____	÷		= 41	[. . . . .]

Disc. # 79-80 [.] (Right Justify)

1.	_____	_____	÷	_____	= 11	[. . . . .]
2.	_____	_____	÷		= 21	[. . . . .]
3.	_____	_____	÷		= 31	[. . . . .]
4.	_____	_____	÷		= 41	[. . . . .]

Disc. # 79-80 [.] (Right Justify)

1.	_____	_____	÷	_____	= 11	[. . . . .]
2.	_____	_____	÷		= 21	[. . . . .]
3.	_____	_____	÷		= 31	[. . . . .]
4.	_____	_____	÷		= 41	[. . . . .]

Disc. # 79-80 [.] (Right Justify)

Record Type No. I-16: AVERAGE SECTION SIZE FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)

Description: This record type specifies the average section size for each instruction type within each discipline/department for PCS Extension Instruction Subprogram (1.4).

Number of Records: The total number of disciplines/departments.

FORTRAN Variable: OSECT2(I,K)

Format: (OSECT2(I,K),K=1,4),NN,I

(10X,4F10.3,20X,I2,6X,I2)

Note: This record type is not required if ISINC(4) is set to "0" (Record type P-05).

AVERAGE SECTION SIZE FOR PCS 1.4

1-10 |A,V,G, ,S,E,C, ,S,Z| (All Records) 71-72 |1,6| (All Records)

Enter Decimal Point With Each Size

I-16

	Instruction Type 1		Instruction Type 2		Instruction Type 3		Instruction Type 4		Disc #
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	
11		21		31		41		79	

29 61 67

Record Type No. I-17: PERCENTAGE DISTRIBUTION OF FTE FACULTY FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)

Description: This record type indicates the proportion of faculty contact hours taught by each faculty rank within each instruction type within each discipline/department for PCS Extension Instruction Subprogram (1.4). The sum of all entries for each record should be 1.0.

Number of Records: The total number of disciplines/departments times the total number of instruction types.

FORTRAN Variable: ODIV2(I,K,KK)

Format: (ODIV2(I,K,KK),KK=1,5),NN,I,K
(10X,5F10.3,10X,I2,4X,2I2)

Note: This record type is not required if ISINC(4) is set to "0" (Record type P-05).

FACULTY FTE DISTRIBUTION BY RANK FOR PCS 1.4

1-10 |F,A,C, ,D,I,S,T, ,| (All Records) 71-72 |1,7| (All Records)

I-17

Enter Decimal Point With Each Distribution

	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #	Instr Type #
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80
	11	21	31	41	51	77-78	80

Record Type No. I-18: AVERAGE FACULTY LOAD FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)

Description: This record type specifies the average contact hour faculty workload per faculty FTE. For each instruction type within each discipline/department, there will be one record with five entries, one per faculty rank.

Number of Records: The total number of disciplines/departments times the total number of instruction types.

FORTRAN Variable: OLOAD2(I,K,KK)

Format: (OLOAD2(I,K,KK),KK=1,5),NN,I,K
(10X,5F10.3,10X,I2,4X,2I2)

Note: This record type is not required if ISINC(4) is set to "0" (Record type P-05).

AVERAGE FACULTY LOAD FOR PCS 1.4

I-18

1-10 |A,V,G, ,F,A,C, ,L,D| (All Records) 71-72 |1,8| (All Records)

Enter Decimal Point With Each Load

Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Disc. #	Instr Type #
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80
11	21	31	41	51	77-78	80

T2 65 74

Record Type No. I-19: STUDENT ENROLLMENTS FOR PCS 1.1/1.2

Description: This record type indicates student enrollments for each student level within a major.

Number of Records: The total number of majors times the number of years for which data are provided.

FORTRAN Variable: STUD(M,SL)

Access and Generation: This data may be derived from institutional historical files or may be an estimate. In the future, the NCHEMS Student Flow Model may be used.

Format: (STUD(M,SL),SL=1,7),YEAR,NN,M
(10X,7I5,21X,A4,I2,6X,I2)

ENROLLMENTS FOR PCS 1.1/1.2

Page ___ of ___

1-10 [S,T,U,D, ,E,N,R,O,L] (All Records) 71-72 [1,9] (All Records)

Right Justify All Values.

I-19

Student Level 1	Student Level 2	Student Level 3	Student Level 4	Student Level 5	Student Level 6	Student Level 7	Year	Maj. #
11 7.4	16 8.7	21 2.6	26	31	36	41	67 1.9.7.1	79 .1
11 5.8	16 7.7	21 2.3	26	31	36	41	67 1.9.7.1	79 .2
11 4.2	16 4.8	21 .16	26	31	36	41	67 1.9.7.1	79 .3
11 3.2	16 3.9	21	26	31	36	41	67 1.9.7.1	79 .4
11 2.1	16 1.9	21	26	31	36	41	67 1.9.7.1	79 .5
11 1.1.2	16 12.5	21 8.4	26	31	36	41	67 1.9.7.1	79 .6
11 6.4	16 7.7	21 5.2	26	31	36	41	67 1.9.7.1	79 .7
11 7.4	16	21	26	31	36	41	67 1.9.7.1	79 .8
11 5.3	16	21	26	31	36	41	67 1.9.7.1	79 .9
11	16	21 1.1.0	26	31	36	41	67 1.9.7.1	79 1.0
11	16 1.0	21 1.3	26	31	36	41	67 1.9.7.1	79 1.1
11	16	21	26	31	36	41	67	79
11	16	21	26	31	36	41	67	79
11	16	21	26	31	36	41	67	79
11	16	21	26	31	36	41	67	79
11	16	21	26	31	36	41	67	79
11	16	21	26	31	36	41	67	79

67 23

Record Type No. I-20: STUDENT ENROLLMENTS FOR SPECIAL SESSION INSTRUCTION SUBPROGRAM (PCS 1.3)

Description: This record type indicates student enrollments for each major. Each record contains student enrollments for 10 majors for one year.

Number of Records: $\frac{(\text{total no. of majors} - 1)}{10} + 1 = \text{total record count per year}$

The total record count is equal to the total record count per year times the number of years.

FORTRAN Variable: OSTUD1(M)

Access and Generation: This data may be derived from institutional historical files or may be an estimate. In the future, the NCHEMS Student Flow Model may be used.

Format: (OSTUD1(M),M=IS,ISS),YEAR,NN,JJ
(10X,10I5,6X,A4,I2,6X,I2)

Note: This record type is not required if ISINC(3) is set to "1" (Record type P-05).

ENROLLMENTS FOR PCS 1.3

1-10 [E,N,R,O,L,L,/,1,.,3] (All Records) 71-72 [2,0] (All Records) Page ___ of ___

Right Justify All Values.

I-20

Maj. #	Maj. #	Maj. #	Maj. #	Maj. #	Maj. #	Maj. #	Maj. #	Maj. #	Maj. #	Year	Seq. #
11 50	16 75	21 62	26 35	31 41	36 37	41 92	46 18	51 46	56 15	67 1971	80 1
11 32	16 21	21 17	26 53	31	36	41	46	51	56	67 1971	80 2
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80
11	16	21	26	31	36	41	46	51	56	67	80

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Record Type No. I-21: STUDENT ENROLLMENTS FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)

Description: This record type indicates student enrollments for each major. Each record contains student enrollments for 10 majors for one year.

Number of Records: $\frac{(\text{total no. of majors} - 1)}{10} + 1 = \text{total record count per year}$

The total record count is equal to the total record count per year times the number of years.

FORTRAN Variable: OSTUD2(M)

Access and Generation: This data may be derived from institutional historical files or may be an estimate. In the future, the NCHEMS Student Flow Model may be used.

Format: (OSTUD2(M),M=IS,ISS),YEAR,NN,JJ
(10X,10I5,6X,A4,I2,6X,I2)

Note: This record type is not required if ISINC(4) is set to "1" (Record type P-05).

ENROLLMENTS FOR PCS 1.4

1-10 [E,N,R,O,L,L,/,1,,,4] (All Records) 71-72 [2,1] (All Records)

Right Justify All Values.

I-21

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Maj. # __ Year Seq. #

11 16 21 26 31 36 41 46 51 56 67 80

Estimation Equations

An estimating equation is a mathematical method of estimating a value. RRPM uses estimating equations for FTE's, supply, travel, and equipment costs for PCS programs.

The estimating equations are of the form $Y = a+b_1x_1+b_2x_2+b_3x_3...b_8x_8$

Where

Y = the value to be estimated

a = user supplied constant

b_i = user supplied coefficient to be multiplied times x_i

x_i = RRPM internally computed variable such as FTE faculty, student credit hours, etc. Each variable is defined on the appropriate input sheet.

Note: x_5 is the log of x_1

x_6 is the log of x_2

x_7 is the log of x_3

x_8 is the log of x_4

The log functions are to the base 10.

It is <u>important</u> to note that entries on the input forms are for <u>a</u> + <u>b</u> values and that headings refer to the x values.

Record Type No. E-40: RP ESTIMATION EQUATION COEFFICIENTS

Description: This record type specifies the coefficients of estimation equations that calculate non-teaching graduate assistants, nonacademic FTEs, and costs of supply, travel, and equipment for the PCS Instruction subprograms. This record has two types of equations, those with variables dimensioned by discipline/department (type 01) and those with variables dimensioned by both discipline/department and nonacademic rank (type 02).

Access and Generation: Each record will have data fields for the record name, a PCS subprogram code associated with the name, a constant, a maximum of eight coefficients, NN number (40), equation type, sequence number within that equation type, and discipline/department number. Additionally, equatior type 2 has a data field for nonacademic rank.

Example:

Columns	Entry	Description
1 - 5	NONAC	name of record
6 - 7	10	code for PCS subprogram 1.1/1.2
8 - 14	a	constant
15 - 21	b_1	coefficient 1
22 - 28	b_2	coefficient 2
29 - 35	b_3	coefficient 3
36 - 42	b_4	coefficient 4
43 - 49	b_5	coefficient 5
50 - 56	b_6	coefficient 6
57 - 63	b_7	coefficient 7

Columns	Entry	Description
64 - 70	b_8	coefficient 8
71 - 72	40	record type number
73 - 74	02	equation type
75 - 76	01	sequence number of this equation within type 02
77 - 78	01	discipline/department number
79 - 80	02	nonacademic rank

The total record count is the sum of:

Equation Type 1: Total number of disciplines/departments (NDISC) X 10*

Equation Type 2: NDISC X total nonacademic ranks (NRK) X 3

The records are input in the following sequence:

PSC Subprogram	Equation Name	Equation Type	Sequence No.
1.1/1.2	Non-teaching Grad Asst FTE	1	1
	Supply	1	2
	Travel	1	3
	Equipment	1	4
1.3**	Supply	1	5
	Travel	1	6
	Equipment	1	7
1.4**	Supply	1	8

*If ISINC(3) and ISINC(4) are both equal to "0" the total number of equation type 1 is equal to total number of disciplines/departments (NDISC) X 10.

**If ISINC(3) and ISINC(4) are both equal to "0" then equation entries must be omitted.

PCS Subprogram	Equation Name	Equation Type	Sequence No.
1.1/1.2	Nonacad FTE	2	1
1.3**	"	2	2
1.4**	"	2	3

Format: (5X,I2,9F7.0,5I2)

The decimal point should be explicitly specified; the format F7.0 means that the placing of the decimal point is at the user's discretion.

ESTIMATING EQUATIONS FOR PCS 1.1/1.2

GRADUATE ASSISTANTS (NON-TEACHING)

1-5 |G,R,A,D,S| 6-7 |1,0| 71-72 |4,0| 73-74 |0,1| 75-76 |0,1|

Enter Decimal Point With Each Value.

E-40

	Constant		FTE Faculty		Log of FTE Faculty		Disc. #
8	2.0	15	.25	22		77-78	.1
8	1.0	15	.50	22		77-78	.2
8	6.0	15		22		77-78	.3
8	.50	15	.25	22		77-78	.4
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.
8		15		22		77-78	.

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ESTIMATING EQUATIONS FOR PCS 1.1/1.2

✓SUPPLY	1-5	S,U,P,L,Y	6-7	1,0	71-72	4,0	73-74	0,1	75-76	0,2
TRAVEL	1-5	T,R,A,V,L	6-7	1,0	71-72	4,0	73-74	0,1	75-76	0,3
EQUIPMENT	1-5	E,Q,U,I,P	6-7	1,0	71-72	4,0	73-74	0,1	75-76	0,4

E-40

Enter Decimal Point With Each (+ or -) Value.

Constant	(A) FTE* Faculty	(B) FTE Nonacademic Staff	(C) Student Credit Hours	Log of (A)	Log of (B)	Log of (C)	Disc. #
8 .5.0.0. 15	.1.0.0. 22	.5.0.. 29	36	43	50	77-78	.1
8 .1.0.0.0. 15	.5.0.. 22	.5.0.. 29	.1.0.. 36	43	50	77-78	.2
8 15	.2.5.0. 22	.1.0.0. 29	36	43	50	77-78	.3
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.
8 15	22	29	36	43	50	77-78	.

*Includes Non-teaching Graduate Assistants.

ESTIMATING EQUATIONS FOR PCS 1.3

Page ____ of ____

E-40

SUPPLY	1-5	S,U,P,L,Y	6-7	1,3	71-72	4,0	73-74	0,1	75-76	0,5
TRAVEL	1-5	T,R,A,V,L	6-7	1,3	71-72	4,0	73-74	0,1	75-76	0,6
EQUIPMENT	1-5	E,Q,U,I,P	6-7	1,3	71-72	4,0	73-74	0,1	75-76	0,7

Enter Decimal Point With Each (+ or -) Value.

Constant	(A) FTE* Faculty	(B) FTE Nonacademic Staff	(C) Student Credit Hours	Log of (A)	Log of (B)	Log of (C)	Disc. #
8 | 15	15 | 22	22 | 29	29 | 36	36 | 43	43 | 50	50 | 77-78	77-78

*Includes Non-teaching Graduate Assistants.

RRPM - NCHEMS
October 1971

ESTIMATING EQUATIONS FOR PCS 1.4

SUPPLY	1-5 S,U,P,L,Y	6-7 1,4	71-72 4,0	73-74 0,1	75-76 0,8
TRAVEL	1-5 T,R,A,V,L	6-7 1,4	71-72 4,0	73-74 0,1	75-76 0,9
EQUIPMENT	1-5 E,Q,U,I,P	6-7 1,4	71-72 4,0	73-74 0,1	75-76 1,0

E-40

Enter Decimal Point With Each (+ or -) Value.

Constant	(A) FTE* Faculty	(B) FTE Nonacademic Staff	(C) Student Credit Hours	Log of (A)	Log of (B)	Log of (C)	Disc. #
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78

*Includes Non-teaching Graduate Assistants.

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ESTIMATING EQUATIONS FOR PCS 1.1/1.2

NONACADEMIC RANKS 1, 2, and 4

E-40

1-5 [N,O,N,A,C] 6-7 [1,0] 71-72 [4,0] 73-74 [0,2] 75-76 [0,1]

	Constant		FTE Faculty		Log of FTE Faculty		Disc. #		Nonacademic Rank
8	3.0	15	.333	22		77-78	.1	80	1
8	.5	15	.25	22		77-78	.1	80	2
8		15	.50	22		77-78	.1	80	4
8	1.0	15		22		77-78	.2	80	1
8		15		22		77-78	.2	80	2
8	4.0	15		22		77-78	.2	80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2

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ESTIMATING EQUATIONS FOR PCS 1.1/1.2

NONACADEMIC RANK 3

E-40

1-5 |N,O,N,A,C| 6-7|1,0| 71-72|4,0| 73-74|0,2| 75-76|0,1|

	Constant		FTE Faculty		FTE of Rank 1		Disc. #		Nonacademic Rank
8		15	.50	22		77-78	.1	80	1
8	2.9	15		22		77-78	.2	80	2
8	1.5	15	.25	22		77-78	.3	80	4
8		15		22		77-78	.	80	1
8		15		22		77-78	.	80	2
8		15		22		77-78	.	80	4
8		15		22		77-78	.	80	1
8		15		22		77-78	.	80	2
8		15		22		77-78	.	80	4
8		15		22		77-78	.	80	1
8		15		22		77-78	.	80	2
8		15		22		77-78	.	80	4
8		15		22		77-78	.	80	1
8		15		22		77-78	.	80	2
8		15		22		77-78	.	80	4
8		15		22		77-78	.	80	1
8		15		22		77-78	.	80	2

ESTIMATING EQUATIONS FOR PCS 1.3

NONACADEMIC RANKS 1, 2, and 4

E-40

1-5 [N,O,N,A,C] 6-7 [1,3] 71-72 [4,0] 73-74 [0,2] 75-76 [0,2]

	Constant		FTE Faculty		Log of FTE Faculty		Disc. #		Nonacademic Rank
8		15		22		77-78		80	[1]
8		15		22		77-78		80	[2]
8		15		22		77-78		80	[4]
8		15		22		77-78		80	[1]
8		15		22		77-78		80	[2]
8		15		22		77-78		80	[4]
8		15		22		77-78		80	[1]
8		15		22		77-78		80	[2]
8		15		22		77-78		80	[4]
8		15		22		77-78		80	[1]
8		15		22		77-78		80	[2]
8		15		22		77-78		80	[4]
8		15		22		77-78		80	[1]
8		15		22		77-78		80	[2]
8		15		22		77-78		80	[4]
8		15		22		77-78		80	[1]
8		15		22		77-78		80	[2]

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ESTIMATING EQUATIONS FOR PCS 1.3

NONACADEMIC RANK 3

1-5 [N,O,N,A,C] 6-7 [1,3] 71-72 [4,0] 73-74 [0,2] 75-76 [0,2]

E-40

Constant	FTE Faculty	FTE of Rank 1	Disc. #	Nonacademic Rank
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]

ESTIMATING EQUATIONS FOR PCS 1.4

NONACADEMIC RANKS 1, 2, and 4

E-40

1-5 [N,O,N,A,C] 6-7 [1,4] 71-72 [4,0] 73-74 [0,2] 75-76 [0,3]

	Constant		FTE Faculty		Log of FTE Faculty		Disc. #		Nonacademic Rank	
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2

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ESTIMATING EQUATIONS FOR PCS 1.4

NONACADEMIC RANK 3

1-5 [N,O,N,A,C] 6-7 [1,4] 71-72 [4,0] 73-74 [0,2] 75-76 [0,3]

E-40

Constant	FTE Faculty	FTE of Rank 1	Disc. #	Nonacademic Rank
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
3	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]

S1 85

IV: INPUT SPECIFICATIONS FOR PREDICTION MODULE PART 2 (RQ)

Record Type No. P-10: PROGRAM SWITCH

Description: This record type indicates the absence or presence of PCS programs 2.0-7.0. In addition, there is a single entry that indicates the number of terms in the academic year (i.e., semester or quarter system).

Number of Records: 1

FORTRAN Variables: PSWICH(I) - program indicators
NTERM - number of terms per academic year

Format: (PSWICH(I),I=1,6),NTERM,NN
(11X,6I1,2X,I1,50X,I2,8X)

PROGRAM INDICATORS (PCS 2.0 THROUGH 7.0)
NUMBER OF TERMS PER ACADEMIC YEAR (PCS 1.1/1.2)

P-10

		1-10	P,R,O,G, ,I,N,D, ,
Should Calculations Be Performed For PCS 2.0?	(2 = Yes, 1 = No)	12	1
Should Calculations Be Performed For PCS 3.0?	(3 = Yes, 1 = No)	13	1
Should Calculations Be Performed For PCS 4.0?	(4 = Yes, 1 = No)	14	4
Should Calculations Be Performed For PCS 5.0?	(5 = Yes, 1 = No)	15	5
Should Calculations Be Performed For PCS 6.0?	(6 = Yes, 1 = No)	16	6
Should Calculations Be Performed For PCS 7.0?	(7 = Yes, 1 = No)	17	1
Number of Terms Per Academic Year	(2 = Sem., 3 = Qtr.)	20	2
		71-72	1,0

Record Type No. P-11: SUBPROGRAM EXECUTION PARAMETERS

Description: This record type consists of parameters that indicate three options of execution for each of the 25 subprograms of the PCS which are controlled by program "RQ." There are 25 entries for this one-card record, corresponding sequentially with the PCS subprograms 2.1 through 7.2. If the entry is a (0), it indicates no execution of the subprogram. A (1) indicates that computations are to be made, and a (2) indicates computations with intermediate output.

Number of Records: 1

FORTRAN Variable: (SWICH(I),I=1,25)

Access and Generation: SWICH(1) - designates PCS 2.1

SWICH(2) - designates PCS 2.2

. . .

. . .

. . .

. . .

SWICH(25) - designates PCS 7.2

Format: (SWICH(I),I=1,25),NN

(10X,25I1,35X,I2,8X)

SUBPROGRAM INDICATORS (PCS 2.0 THROUGH 7.0)

1-10 |S,U,B,P,R,O,G,-,I,N|

P-11

Should the Following PCS Subprograms Be Executed?

(1 = Yes, 0 or Blank = No, 2 = Yes Plus Intermediate Outputs)

	PCS	PCS					
Organized Research	2.1 (11)[ ]	2.2 (12)[ ]					
Public Service	3.1 (13)[ ]	3.2 (14)[ ]					
Academic Support	4.1 (15)[2]	4.2 (16)[2]	4.3 (17)[2]	4.4 (18)[2]	4.5 (19)[ ]	4.6 (20)[2]	4.7 (21)[2]
Student Services	5.1 (22)[2]	5.2 (23)[2]	5.3 (24)[2]	5.4 (25)[2]	5.5 (26)[2]		
Institutional Support	6.1 (27)[1]	6.2 (28)[1]	6.3 (29)[1]	6.4 (30)[1]	6.5 (31)[2]	6.6 (32)[1]	6.7 (33)[2]
Independent Operations	7.1 (34)[ ]	7.2 (35)[ ]					

71-72 |1,1|

Record Type No. I-22: PERCENTAGE DISTRIBUTION OF FTE FOR RESEARCH AND PUBLIC SERVICE SUBPROGRAMS (PCS 2.0-3.0)

Description: This record type indicates the distribution of faculty FTE by Faculty Rank. Each record contains proportions for five faculty ranks.

Number of Records: The total number of disciplines/departments times the total number of pertinent subprograms (four, in this case).

FORTRAN Variable: DIVP(L,I,KK)

Access and Generation: The values should be entered as proportions and should sum to 1.

Format: (DIVP(L,I,KK),KK=1,5),NN,L,I

(10X,5F10.3,10X,I2,4X,2I2)

FACULTY DISTRIBUTION FOR PCS 2.0/3.0

1-10 |F,A,C, ,D,I,S,T, ,| (All Records) 71-72 |2,2| (All Records)

Enter Decimal Point With Each Distribution.

I-22

Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	*Sub-Prog #	Disc. #
11 .20	21 .25	31 .30	41 .10	51 .05	78 1	79-80 .1
11 .25	21 .30	31 .10	41 .15	51 .20	78 1	79-80 .2
11	21	31	41	51	78 1	79-80 .3
11	21	31	41	51	78 1	79-80 .4
11	21	31	41	51	78 1	79-80 .5
11	21	31	41	51	78 1	79-80 .6
11	21	31	41	51	78 1	79-80 .7
11	21	31	41	51	78 1	79-80 .8
11	21	31	41	51	78 1	79-80 .9
11	21	31	41	51	78 1	79-80 1.0
11	21	31	41	51	78 1	79-80 1.1
11	21	31	41	51	78 1	79-80 1.2
11	21	31	41	51	78 1	79-80 1.3
11	21	31	41	51	78 1	79-80 1.4
11	21	31	41	51	78 2	79-80 .1
11	21	31	41	51	78 2	79-80 .2
11	21	31	41	51	78 2	79-80 .3

91 16 27 28

*1 = PCS 2.1, 2 = 2.2, 3 = 3.1, 4 = 3.2

Record Type No. I-23: NONACADEMIC STAFF SALARY SCHEDULE FOR PCS SUPPORT SUBPROGRAMS (PCS 4.0-7.0)

Description: This record type indicates the salary schedule for each non-academic rank in the support programs.

Number of Records: 20, one record for each subprogram

FORTRAN Variable: NSALSC(L,N)

Access and Generation: The sequence is in PCS order from 4.1-7.2 with exception of 4.6 (Academic Administration and Personnel Development). Nonacademic staff salaries for PCS 4.6 use record type I-06.

Format: (NSALSC(L,N),N=1,4),NN,L

(10X,4F10.2,20X,I2,6X,I2)

NONACADEMIC SALARIES FOR PCS SUPPORT PROGRAMS (4.0 - 7.0)

1-10 N,O,N, ,A,C, ,S,A,L (All Records) 71-72 2,3 (All Records)

Enter Decimal Point With Each Salary

	Rank 1	Rank 2	Rank 3	Rank 4	Subprogram #
11	17,000.	21	13,000.	31	70.00.	41	40,000.	79-80	1
11	15,000.	21	10,000.	31	8,000.	41	5,400.	79-80	2
11	16,500.	21	13,000.	31	11,000.	41	6,500.	79-80	3
11	17,250.	21	11,500.	31	9,800.	41	4,290.	79-80	4
11	13,600.	21	7900.	31	6590	41	5,000.	79-80	5
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	
11		21		31		41		79-80	

Record Type No. I-24: ACADEMIC ADMINISTRATORS SALARY SCHEDULE FOR PCS 4.6

Description: This record type indicates the salary schedule of academic administrators by discipline/department. Each record contains entries for six disciplines/departments.

Number of Records: $\frac{(\text{total no. of disciplines} - 1)}{6} + 1$

FORTRAN Variable: ASALSC(I)

Format: (ASALSC(I),I=ILL,ILU),NN,JJ

(10X,6F10.2,I2,6X,I2)

ACADEMIC ADMINISTRATORS SALARIES FOR PCS 4.6

1-10 |A,C,A,-,A,D,M,I,N,| (All Records) 71-72 |2,4|

Enter Decimal Point With Each Value.

	Disc. # 1	Disc. # 2	Disc. # 3	Disc. # 4	Disc. # 5	Disc. # 6	Seq. #
11	17000.	21	1650.	31	18259.	41	15350.	51	16000.	61	12000.	79	1
	Disc. # 7	Disc. # 8	Disc. # 9	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11	14000.	21	19000.	31	15509.	41		51		61		79	2
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	
	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Disc. # ___	Seq. #
11		21		31		41		51		61		79	

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Record Type No. I-25: CLASSROOM SPACE[2]

Description: This record type contains the factors needed to calculate assignable square feet of classroom space. There are three data entries for each record within each discipline/department:

1. Classroom utilization rate
2. Classroom station occupancy rate
3. The assignable square feet per classroom station

Number of Records: The number of disciplines/departments or 2.

FORTRAN Variable: (CLSASF(I,MM),MM=1,3)

Access and Generation: If common factors are desired for all disciplines/departments, the first record should contain these factors followed by a 99999. in the first entry of record no. 2.

CLSASF(I,1) is the classroom utilization rate for each discipline/department. Room utilization rate is the average number of hours per week a group of rooms is scheduled for use. It may be derived in the following way:

1. Sum all scheduled classroom hours
2. Sum all classrooms
3. Divide 2 into 1

A typical room utilization rate would be 30 hours per week.

CLSASF(I,2) is the classroom station occupancy rate for each discipline/department. Station occupancy rate is the proportion of stations scheduled for use when the room is scheduled for use and may be derived in the following way:

1. Sum the scheduled classroom weekly student hours
2. Sum the number of classroom stations
3. Divide 2 into 1
4. Sum the scheduled weekly classroom hours
5. Sum the number of classrooms
6. Divide 5 into 4
7. Divide the result of 6 into the result of 3

If "standard" were to be input, a common rate would be .60.

CLSASF(I,3) is the assignable square feet needed for each classroom station in each discipline/department. It may be derived in the following way:

1. Sum all classroom ASF
2. Sum all classroom stations
3. Divide 2 into 1

A common ASF/Station figure is 15.

NOTE: The three factors will be used by RRPM in the following formula to arrive at an overall factor of assignable square feet of classroom space needed for each weekly student hour.

$$\frac{\text{Assignable square feet per station}}{\text{room utilization*station occupancy rate}} = \text{Assignable square feet per weekly student hour}$$

Because it is common to have classroom space in an institutional assignment pool rather than have rooms controlled by departments, the three input factors will likely be the same for all disciplines.

Format: (CLSASF(I,MM),MM=1,3),NN,I

(10X,3F10.2,30X,I2,6X,I2)

98

CLASSROOM SPACE FACTORS

1-10 |C,L,A,S,S,R,M,-,S,P| (All Records) 71-72 |2,5| (All Records)

Enter Decimal Point With Each Factor.

I-25

	Room Utilization Rate		Station Occupancy Rate		Assignable Square Feet Per Station		Disc. #
11	30.	21	.60	31	15.	79-80	01
11	99.99.	21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	
11		21		31		79-80	

105

Record Type No. I-26: CLASS LABORATORY SPACE

Description: This record type contains the factors needed to calculate assignable square feet of class laboratory space. There are three data entries for each record within each discipline/department:

1. Laboratory utilization rate
2. Laboratory station occupancy rate
3. Assignable square feet per laboratory station

Number of Records: The number of disciplines/departments or 2.

FORTRAN Variable: CLBASF(I,MM)

Access and Generation: If common factors are desired for all disciplines/departments, the first record should contain these factors followed by a 99999. in the first entry of record no. 2.

CLBASF(I,1) is the class laboratory utilization rate for each discipline/department. Room utilization rate is the average number of hours per week a group of rooms is scheduled for use. It may be derived in the following way:

1. Sum all scheduled class laboratory hours for each discipline/department
2. Sum all class laboratories for each discipline/department
3. Divide 2 into 1 for each discipline/department

A typical room utilization rate would be 20 hours per week.

CLBASF(I,2) is the class lab station occupancy rate for each discipline/department. Station occupancy rate is the proportion of stations scheduled for use when the room is scheduled for use and may be derived in the following way for each discipline/department:

1. Sum the scheduled class lab weekly student hours
2. Sum the number of class lab stations
3. Divide 2 into 1
4. Sum the scheduled weekly class lab hours
5. Sum the number of class labs
6. Divide 5 into 4
7. Divide the result of 6 into the result of 3

If a standard were to be input, a common rate would be .70.

CLBASF(I,3) is the assignable square feet needed for each class lab station in each discipline/department. It can be derived in the following way:

1. Sum all class lab ASF for each discipline/department
2. Sum all class lab stations for each discipline/department
3. Divide 2 into 1 for each discipline/department

A common ASF/Station figure is 50.

NOTE: The three factors detailed above will be calculated by RRPM in the following formula to arrive at an overall factor of assignable square feet of class lab space needed for each weekly student hour:

$$\frac{\text{Assignable square feet per station}}{\text{Room utilization} * \text{station occupancy rate}} = \text{Assignable square feet per weekly student hour}$$

Because class labs are generally assigned to and scheduled by each discipline/ department, the three factors for the above calculation may be different for each discipline/department.

Format: (CLBASF(I,MM),MM=1,3),NN,I

(10X,3F10.2,30X,I2,6X,I2)

CLASS LAB SPACE FACTORS

1-10 |C,L,A,S,S,L,B,-,S,P| (All Records) 71-72 |2,6| (All Records)

Enter Decimal Point With Each Factor.

I-26

	Room Utilization Rate		Station Occupancy Rate		Assignable Square Feet Per Station		Disc. #
11	2.0	21	.70	31	50.	79-80	.1
11	2.5	21	.80	31	65.	79-80	.2
11	3.0	21	.60	31	45.	79-80	.3
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.
11		21		31		79-80	.

Record Type No. I-27: RESEARCH LABORATORY SPACE

Description: This record type indicates the assignable square feet of research laboratory space required for each FTE faculty member within each discipline/department.

Number of Records: $\frac{(\text{total number of disciplines} - 1)}{6} + 1$ or 1.

FORTRAN Variable: RLBASF(I)

Access and Generation: If the present operating level of the institution is to be used as a factor for simulation, RLBASF(I) can be obtained in the following way:

1. Sum the research faculty or total faculty (the institution will have to make this choice) FTE's for each discipline/department
2. Sum the ASF for research laboratories in each discipline/department
3. Divide 1 into 2 for each discipline/department

An alternative is to apply an arbitrary factor such as 200 ASF per FTE. If this method is selected, the record count will be one card only. The first field will contain 200, and the second will be 99999.9. The computer will generate the 200 for all the other disciplines/departments.

Format: (RLBASF(I),I=ILL,ILU),NN,JJ

(10X,6F10.2,I2,6X,I2)

RESEARCH LAB SPACE FACTORS

Each Entry is Assignable Square Feet Per Research Faculty FTE

1-10 |R,E,S,L,A,B,-,S,P,| (All Records) 71-72 |2,7|

Enter Decimal Point With Each Value.

Disc. # 1 11|225.|	Disc. # 2 21|99999.|	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. # 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||
Disc. # ___ 11||	Disc. # ___ 21||	Disc. # ___ 31||	Disc. # ___ 41||	Disc. # ___ 51||	Disc. # ___ 61||	Seq. #___ 79||

105.111

Record Type No. I-28: OFFICE AND CONFERENCE SPACE

Description: This record indicates the assignable square feet of office and conference space required per FTE employee.

Number of Records: 1

FORTRAN Variable: OFFASF

Access and Generation: If the present operating level of the institution is desired as the factor, OFFASF can be obtained in the following way:

1. Sum the number of FTE employees
2. Sum the ASF of office space
3. Divide 1 into 2

An alternative may be to apply a space standard, e.g. 150-180 ASF per FTE.

Format: OFFASF,NN

(10X,F10.2,50X,I2,8X)

Record Type No. I-29: LIBRARY AND "OTHER" SPACE FACTORS

Description: This record specifies the factors needed to calculate assignable square feet of space for libraries and other space.

"Other space" is defined here as the sum of General Use, Academic Support, and Student Support space and excludes industrial and medical care facilities.

Number of Records: 1

FORTRAN Variable: (ACSASF(IO),IO=1,5)

Access and Generation: ACSASF(1),(2),(3),(4) are factors that are used for calculating library ASF.

ACSASF(1) is the assignable square feet of reader space per head count student. The institution's present level may be derived in the following way:

1. Sum the enrolled (head count) students
2. Sum ASF reader space
3. Divide the result of 1 into 2

An alternative would be to use a standard factor such as 25-30 ASF per head count student.

ACSASF(2) is the assignable square feet of stack space per bound volume. The institution's present level can be derived as follows:

1. Sum bound volumes
2. Sum ASF of stack space
3. Divide 1 into 2

An alternative is to use a standard, e.g., .1 ASF of stack space per bound volume.

ACSASF(3) is the percentage of the assignable square feet for reading space plus stack space, which must be added for service assignable square feet. The institution's present level can be derived by calculating the percentage of existing library ASF that is service space.

An alternative is to use a standard, e.g., 25%. This percentage distribution must be entered as a proportion (.25).

ACSASF(4) is the proportion of head count students who are expected to use the library reader space.

ACSASF(5) is a factor for calculating all other space required. It is defined as a proportion of the sum of all other space types; i.e., classrooms, class laboratories, research laboratories, offices and conference rooms, and libraries.

Format: ACSASF(K),K=1,5,NN
(10X,5F10.3,10X,I2,8X)

OFFICE SPACE FACTOR

I-28

1-10	O,F,F,I,C,E,-,S,P,	11	Assignable Square Feet Per FTE: 1,5,0,.	71-72	2,8

LIBRARY AND "OTHER" SPACE FACTORS

Enter Decimal Point With Each Factor.

I-29

1-10	S,P,-,F,A,C,T,O,R,S		
Assignable Square Feet of Reader Space Per Student	11	2,5,.	
Assignable Square Feet of Stack Space Per Volume	21	.1	
Proportion of Reader Plus Stack Space Required For Service	31	.2,5	
Proportion of Student Enrollment Expected To Use Reader Space	41	.3,0	
Proportion of "Other" Space to Sum of All Previous Space Types	51	.4,5	
	71-72	2,9	

Record Type No. I-30: CONSTRUCTION FACTORS

Description: This record type contains three factors for each of six space types.

Number of Records: 6

FORTRAN Variables: BOUNDF(IX) - construction increment
SPCINV(IX) - current inventory of space
CONSTF(IX) - the cost per assignable square foot of construction

Format: BOUNDF(IX),SPCINV(IX),CONSTF(IX),NN,IX
(10X,3F10.2,30X,I2,6X,I2)

CONSTRUCTION FACTORS

1-10 |C,O,N,S,T,-,F,A,C,| (All Records) 71-72 |3,0| (All Records)

Enter Decimal Point With Each Factor.

	Construction Space Increment	Current Space Inventory	Construction Cost Per Square Foot	Space Type
CLASSROOM	11 |50000.|	21 |5500000.|	31 |3.5.|	80 |1|
CLASS LAB	11 ||	21 ||	31 ||	80 |2|
NONCLASS LAB	11 ||	21 ||	31 ||	80 |3|
OFFICE	11 ||	21 ||	31 ||	80 |4|
LIBRARY	11 ||	21 ||	31 ||	80 |5|
OTHER	11 ||	21 ||	31 ||	80 |6|

Record Type No. I-31: LIBRARY VOLUME FACTORS

Description: This record contains the current inventory of bound volumes in the institution's libraries and the yearly acquisition rate of bound volumes as a proportion of total bound volumes.

Number of Records: 1

FORTRAN Variables: BVOL - inventory
BINC - acquisition rate

Format: BVOL,BINC,NN

(10X,F10.1,F10.2,40X,I2,8X)

LIBRARY VOLUME FACTORS

I-31

	1-10	L,I,B,-,V,O,L,-,F,
Current Inventory of Volumes	11	8,0,0,0,0,0,
Acquisition Rate	21	,0,2
	71-72	3,1

119 113

Record Type No. E-50: RQ PROGRAM ESTIMATION EQUATION COEFFICIENTS

Description: This record type specifies the coefficients of estimation equations for the RQ Program (PCS subprograms 2.1-7.2). This record has four types of equations:

Type 01 - those that are not dimensioned

Type 02 - those dimensioned by discipline/department

Type 03 - those dimensioned by nonacademic rank

Type 04 - those dimensioned by both discipline/department and nonacademic rank

Access and Generation: Each record will have data fields for the record name, a PCS subprogram code associated with the name, a constant, a maximum of eight coefficients, the NN number (50), equation type, sequence number within that equation type, discipline/department number, and nonacademic rank if appropriate.

The entries in the proper fields would be:

Example:

Columns	Entry	Description
1 - 5	NONAC	name of record
6 - 7	41	code for PCS subprogram 4.1
8 - 14	a	constant
15 - 21	b_1	coefficient 1
22 - 28	b_2	coefficient 2

Columns	Entry	Description
29 - 35	b_3	coefficient 3
36 - 42	b_4	coefficient 4
43 - 49	b_5	coefficient 5
50 - 56	b_6	coefficient 6
57 - 63	b_7	coefficient 7
64 - 70	b_8	coefficient 8
71 - 72	50	record type number
73 - 74	03	equation type
75 - 76	01	sequence number of this equation within type 03.
79 - 80	02	nonacademic rank

The total record count is the sum of:

1. 20 support subprograms x 3 undimensioned equations in each subprogram
2. NDISC x 20 equations dimensioned by discipline/department(I)
3. NRK x 20 equations dimensioned by nonacademic ranks (N)
4. NDISC x NRK x 5 equations dimensioned by I and N.

The records must be input in the following sequence:

PCS Subprogram	Equation Names	Equation Type	Sequence Number
4.1	1. Supply	1	1
	2. Travel	1	2
	3. Equipment	1	3
4.2	1. Supply	1	4
	2. Travel	1	5
	3. Equipment	1	6
4.3	1. Supply	1	7
	2. Travel	1	8
	3. Equipment	1	9
4.4	1. Supply	1	10
	2. Travel	1	11
	3. Equipment	1	12
4.5	1. Supply	1	13
	2. Travel	1	14
	3. Equipment	1	15
4.7	1. Supply	1	16
	2. Travel	1	17
	3. Equipment	1	18
5.1	1. Supply	1	19
	2. Travel	1	20
	3. Equipment	1	21
5.2	1. Supply	1	22
	2. Travel	1	23
	3. Equipment	1	24
5.3	1. Supply	1	25
	2. Travel	1	26
	3. Equipment	1	27
5.4	1. Supply	1	28
	2. Travel	1	29
	3. Equipment	1	30
5.5	1. Supply	1	31
	2. Travel	1	32
	3. Equipment	1	33

PCS Subprogram	Equation Names	Equation Type	Sequence Number
6.1	1. Supply	1	34
	2. Travel	1	35
	3. Equipment	1	36
6.2	1. Supply	1	37
	2. Travel	1	38
	3. Equipment	1	39
6.3	1. Supply	1	40
	2. Travel	1	41
	3. Equipment	1	42
6.4	1. Supply	1	43
	2. Travel	1	44
	3. Equipment	1	45
6.5	1. Supply	1	46
	2. Travel	1	47
	3. Equipment	1	48
6.6	1. Supply	1	49
	2. Travel	1	50
	3. Equipment	1	51
6.7	1. Supply	1	52
	2. Travel	1	53
	3. Equipment	1	54
7.1	1. Supply	1	55
	2. Travel	1	56
	3. Equipment	1	57
7.2	1. Supply	1	58
	2. Travel	1	59
	3. Equipment	1	60
4.6	1. ADWAPS(I)	2	1
	2. Supply(I)	2	2
	3. Travel(I)	2	3
	4. Equipment(I)	2	4
* 2.1	1. Faculty FTE(I)	2	5
	2. Supply(I)	2	6
	3. Travel(I)	2	7
	4. Equipment(I)	2	8
* 2.2	1. Faculty FTE(I)	2	9
	2. Supply(I)	2	10
	3. Travel(I)	2	11
	4. Equipment(I)	2	12

* Entries must be omitted if PSWICH(1) = "1" and PSWICH(2) = "1". (Record type P-10.)

PCS Subprogram	Equation Names	Equation Type	Sequence Number
* 3.1	1. Faculty FTE(I)	2	13
	2. Supply(I)	2	14
	3. Travel(I)	2	15
	4. Equipment(I)	2	16
3.2	1. Faculty FTE(I)	2	17
	2. Supply(I)	2	18
	3. Travel(I)	2	19
	4. Equipment(I)	2	20
4.1	Nonacademic FTE(N)	3	1
4.2	Nonacademic FTE(N)	3	2
4.3	Nonacademic FTE(N)	3	3
4.4	Nonacademic FTE(N)	3	4
4.5	Nonacademic FTE(N)	3	5
4.7	Nonacademic FTE(N)	3	6
5.1	Nonacademic FTE(N)	3	7
5.2	Nonacademic FTE(N)	3	8
5.3	Nonacademic FTE(N)	3	9
5.4	Nonacademic FTE(N)	3	10
5.5	Nonacademic FTE(N)	3	11
6.1	Nonacademic FTE(N)	3	12
6.2	Nonacademic FTE(N)	3	13
6.3	Nonacademic FTE(N)	3	14
6.4	Nonacademic FTE(N)	3	15
6.5	Nonacademic FTE(N)	3	16
6.6	Nonacademic FTE(N)	3	17
6.7	Nonacademic FTE(N)	3	18
7.1	Nonacademic FTE(N)	3	19
7.2	Nonacademic FTE(N)	3	20

* Entries must be omitted if PSWICH(1) = "1" and PSWICH(2) = "1". (Record type P-10)

	PCS Subprogram	Equation Names	Equation Type	Sequence Number
	4.6	Nonacademic FTE(I,N)	4	1
*	2.1	Nonacademic FTE(I,N)	4	2
*	2.2	Nonacademic FTE(I,N)	4	3
*	3.1	Nonacademic FTE(I,N)	4	4
*	3.2	Nonacademic FTE(I,N)	4	5

* Entries must be omitted if PSWICH(1) = "1" and PSWICH(2) = "1". (Record type P-10)

Format: (5X,I2,9F7.0,5I2)

Note: The decimal point should be explicitly specified.

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 4.0 (ACADEMIC SUPPORT)

Enter Decimal Point With Each (+ or -) Value.

E-50

PCS SUBPROGRAM 4.1

SUPPLY 1-5 [S,U,P,L,Y] 6-7(PCS) [4,1]

		(A) FTE Staff For This PCS	(B) Primary Program Faculty FTE	(C) Lower Division Students	(D) Upper Division Students
Constant	8	5,0,0,.	15	100.	22	25.	29	10.	36	10.
Log of (B)	43									
Log of (C)	50									
Log of (D)	57									
Log of (A)	64									

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [,1]

PCS SUBPROGRAM 4.1

TRAVEL 1-5 [T,R,A,V,L] 6-7(PCS) [4,1]

		(A) FTE Staff For This PCS	(B) Primary Program Faculty FTE	(C) Lower Division Students	(D) Upper Division Students
Constant	8	2,0,0,.	15	5,0,.	22		29		36	
Log of (B)	43									
Log of (C)	50									
Log of (D)	57									
Log of (A)	64									

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [,2]

PCS SUBPROGRAM 4.1

EQUIPMENT 1-5 [E,Q,U,I,P] 6-7(PCS) [4,1]

		(A) FTE Staff For This PCS	(B) Primary Program Faculty FTE	(C) Lower Division Students	(D) Upper Division Students
Constant	8	4,0,0,0,.	15	22	29	36
Log of (B)	43									
Log of (C)	50									
Log of (D)	57									
Log of (A)	64									

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [,3]

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ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 4.5

Enter Decimal Point With Each (+ or -) Value.

PCS SUBPROGRAM 4.5

E-50

SUPPLY 1-5 [S,U,P,L,Y] 6-7(PCS) [4,5]

	(A) FTE Staff	(B) User Defined	(C) User Defined	(D) User Defined
Constant 8	15	22	29	36
	Log of (B) 43	Log of (C) 50	Log of (D) 57	Log of (A) 64

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [1,3]

PCS SUBPROGRAM 4.5

TRAVEL 1-5 [T,R,A,V,L] 6-7(PCS) [4,5]

	(A) FTE Staff	(B) User Defined	(C) User Defined	(D) User Defined
Constant 8	15	22	29	36
	Log of (B) 43	Log of (C) 50	Log of (D) 57	Log of (A) 64

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [1,4]

PCS SUBPROGRAM 4.5

EQUIPMENT 1-5 [E,Q,U,I,P] 6-7(PCS) [4,5]

	(A) FTE Staff	(B) User Defined	(C) User Defined	(D) User Defined
Constant 8	15	22	29	36
	Log of (B) 43	Log of (C) 50	Log of (D) 57	Log of (A) 64

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [1,5]

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 5.0 (STUDENT SERVICES)

Page ____ of ____

Enter Decimal Point With Each (+ or -) Value.

E-50

PCS SUBPROGRAM 5.5

SUPPLY 1-5 S,U,P,L,Y 6-7(PCS) 5,5

Constant 8 1,0,0,0.	(A) FTE Staff For This PCS 15	(B) Lower Division Students 22	(C) Upper Division Students 29	
	Log of (B) 36	Log of (C) 43	Log of (A) 50	
	71-72 5,0	73-74 0,1	Seq. 75-76 3,1	

PCS SUBPROGRAM 5.5

TRAVEL 1-5 T,R,A,V,L 6-7(PCS) 5,5

Constant 8 2,0,0,0.	(A) FTE Staff For This PCS 15	(B) Lower Division Students 22	(C) Upper Division Students 29	
	Log of (B) 36	Log of (C) 43	Log of (A) 50	
	71-72 5,0	73-74 0,1	Seq. 75-76 3,2	

122 1,68

PCS SUBPROGRAM 5.5

EQUIPMENT 1-5 E,Q,U,I,P 6-7(PCS) 5,5

Constant 8 5,0,0,0.	(A) FTE Staff For This PCS 15	(B) Lower Division Students 22	(C) Upper Division Students 29	
	Log of (B) 36	Log of (C) 43	Log of (A) 50	
	71-72 5,0	73-74 0,1	Seq. 75-76 3,3	

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 6.0 (INSTITUTIONAL SUPPORT)

Enter Decimal Point With Each (+ or -) Value.

E-50

PCS SUBPROGRAM 6.1

SUPPLY 1-5 S,U,P,L,Y 6-7(PCS) 6,1

		(A) FTE Staff This Subprogram	(B) Total FTE Faculty Primary Program	(C) Total Student Enrollment
Constant	8 5,0,0.	15 1,5,0.	22	29
		Log of (B) 36	Log of (C) 43	Log of (A) 50

71-72 5,0 73-74 0,1 Seq. 75-76 3,4

PCS SUBPROGRAM 6.1

TRAVEL 1-5 T,R,A,V,L 6-7(PCS) 6,1

		(A) FTE Staff This Subprogram	(B) Total FTE Faculty Primary Program	(C) Total Student Enrollment
Constant	8	15 2,5,0.	22	29
		Log of (B) 36	Log of (C) 43	Log of (A) 50

71-72 5,0 73-74 0,1 Seq. 75-76 3,5

PCS SUBPROGRAM 6.1

EQUIPMENT 1-5 E,Q,U,I,P 6-7(PCS) 6,1

		(A) FTE Staff This Subprogram	(B) Total FTE Faculty Primary Program	(C) Total Student Enrollment
Constant	8 3,5,0,0.	15	22	29
		Log of (B) 36	Log of (C) 43	Log of (A) 50

71-72 5 0 73-74 0,1 Seq. 75-76 3,6

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 6.5

Enter Decimal Point With Each (+ or -) Value.

E-50

PCS SUBPROGRAM 6.5

SUPPLY 1-5 [S,U,P,L,Y] 6-7(PCS) [6,5]

Constant 8[ ]

(A) FTE Staff This Subprogram 15[ ]

(B) Total Assignable Square Ft. 22[ ]

Log of (B) 29[ ]

Log of (A) 36[ ]

71-72 [6,0] 73-74 [0,1] Seq. 75-76 [4,6]

PCS SUBPROGRAM 6.5

TRAVEL 1-5 [T,R,A,V,L] 6-7(PCS) [6,5]

Constant 8[ ]

(A) FTE Staff This Subprogram 15[ ]

(B) Total Assignable Square Ft. 22[ ]

Log of (B) 29[ ]

Log of (A) 36[ ]

71-72 [6,0] 73-74 [0,1] Seq. 75-76 [4,7]

PCS SUBPROGRAM 6.5

EQUIPMENT 1-5 [E,Q,U,I,P] 6-7(PCS) [6,5]

Constant 8[ ]

(A) FTE Staff This Subprogram 15[ ]

(B) Total Assignable Square Ft. 22[ ]

Log of (B) 29[ ]

Log of (A) 36[ ]

71-72 [6,0] 73-74 [0,1] Seq. 75-76 [4,8]

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 7.0 (INDEPENDENT OPERATIONS)

Page ____ of ____

Enter Decimal Point With Each (+ or -) Value.

PCS SUBPROGRAM 7.2

E-50

SUPPLY 1-5 [S,U,P,L,Y] 6-7(PCS) [7,2]

		(A) FTE Staff	(B) User Defined	(C) User Defined	(D) User Defined
Constant	8	15	22	29	36
		Log of (B) 43	Log of (C) 50	Log of (D) 57	Log of (A) 64

PCS SUBPROGRAM 7.2 71-72 [5,0] 73-74 [0,1] Seq. 75-76 [5,8]

TRAVEL 1-5 [T,R,A,V,L] 6-7(PCS) [7,2]

		(A) FTE Staff	(B) User Defined	(C) User Defined	(D) User Defined
Constant	8	15	22	29	36
		Log of (B) 43	Log of (C) 50	Log of (D) 57	Log of (A) 64

PCS SUBPROGRAM 7.2 71-72 [5,0] 73-74 [0,1] Seq. 75-76 [5,9]

EQUIPMENT 1-5 [E,Q,U,I,P] 6-7(PCS) [7,2]

		(A) FTE Staff	(B) User Defined	(C) User Defined	(D) User Defined
Constant	8	15	22	29	36
		Log of (B) 43	Log of (C) 50	Log of (D) 57	Log of (A) 64

71-72 [5,0] 73-74 [0,1] Seq. 75-76 [6,0]

ESTIMATING EQUATION FOR PCS 4.6 (ACADEMIC ADMINISTRATION and PERSONNEL DEVELOPMENT) Page ____ of ____

E-50

ADMINISTRATOR FTE Enter Decimal Point With Each Value.

1-5 [A,D,W,A,P] 6-7 [4,6] 71-72 [5,0] 73-74 [0,2] 75-76 [0,1]

	Constant		FTE FACULTY IN PCS 1.1/1.2		Disc. #
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	
8		15		77-78	

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ESTIMATING EQUATION FOR PCS 4.6 (ACADEMIC ADMINISTRATION)

SUPPLY

E-50

Enter Decimal Point With Each Value.

1-5 [S,U,P,L,Y] 6-7 [4,6] 71-72 [5,0] 73-74 [0,2] 75-76 [0,2]

Constant	(A) FTE of Academic Administrator	(B) FTE of Nonacademic Staff of 4.6	(C) Lower Division Students	(D) Upper Division Students	Log of (A)	Log of (B)	Log of (C)	Log of (D)	Disc. #
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78

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ESTIMATING EQUATION FOR PCS 4.6 (ACADEMIC ADMINISTRATION)

TRAVEL

E-50

Enter Decimal Point With Each Value.

1-5 [T,R,A,V,L] 6-7 [4,6] 71-72 [5,0] 73-74 [0,2] 75-76 [0,3]

Constant	(A) FTE of Academic Administrator	(B) FTE of Nonacademic Staff of 4.6	(C) Lower Division Students	(D) Upper Division Students	Log of (A)	Log of (B)	Log of (C)	Log of (D)	Disc. #
8	15	22	29	36	43	50	57	64	77-78
3	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78

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ESTIMATING EQUATION FOR PCS 4.6 (ACADEMIC ADMINISTRATION)

EQUIPMENT

E-50

Enter Decimal Point With Each Value.

1-5 [E,Q,U,I,P] 6-7 [4,6] 71-72 [5,0] 73-74 [0,2] 75-76 [0,4]

Constant	(A) FTE of Academic Administrator	(B) FTE of Nonacademic Staff of 4.6	(C) Lower Division Students	(D) Upper Division Students	Log of (A)	Log of (B)	Log of (C)	Log of (D)	Disc. #
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78
8	15	22	29	36	43	50	57	64	77-78

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ESTIMATING EQUATIONS FOR PCS 2.1 (INSTITUTES and RESEARCH CENTERS)

E-50

FACULTY FTE

1-5 [A,C,F,T,E] 6-7(PCS) [2,1] 71-72 [5,0] 73-74 [0,2] 75-76 [0,5]

Constant	(A) Faculty FTE In PCS 1.1/1.2	(B) Graduate Enrollment	Log of (A)	Log of (B)	Disc. #
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78

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ESTIMATING EQUATIONS FOR PCS 2.1 (INSTITUTES AND RESEARCH CENTERS)

SUPPLY

1-5 S,U,P,L,Y | 6-7 2,1 | 71-72 5,0 | 73-74 0,2 | 75-76 0,6 |

E-50

Constant	(A) Nonacademic Staff of PCS 2.1	(B) Faculty FTE of PCS 2.1	Log of (A)	Log of (B)	Disc. #
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78

ESTIMATING EQUATIONS FOR PCS 3.1 (CONTINUING EDUCATION)

Page ____ of ____

FACULTY FTE Enter Decimal Point With Each Value.

1-5 [A,C,F,T,E] 6-7 [3,1] 71-72 [5,0] 73-74 [0,2] 75-76 [1,3]

E-40

Constant	(A) FTE FACULTY IN PCS 1.1/1.2	(B) FTE FACULTY IN ORGANIZED RESEARCH	(C) TOTAL INSTRUCTION RESEARCH COSTS	Log of (A)	Log of (B)	Log of (C)	Disc #
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78
8	15	22	29	36	43	50	77-78

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ESTIMATING EQUATIONS FOR PCS 3.1 (CONTINUING EDUCATION)

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SUPPLY Enter Decimal Point With Each Value.

1-5 [S,U,P,L,Y] 6-7 [3,1] 71-72 [5,0] 73-74 [0,2] 75-76 [1,4]

Constant	(A) NONACADEMIC FTE'S THIS SUBPROGRAM	(B) ACADEMIC FTE'S THIS SUBPROGRAM	Log of (A)	Log of (B)	Disc. #
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78
8	15	22	29	36	77-78

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 4.0 (ACADEMIC SUPPORT)

Page ____ of ____

NONACADEMIC STAFF

E-50

PCS SUPROGRAM 4.1

1-5 [N,O,N,A,C] 6-7(PCS) [4,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [1]

Constant	(A) Primary Program Faculty FTE	(B) Lower Division Students	(C) Upper Division Students	Log of (A)	Log of (B)	Log of (C)	
8 [.5]	15	22	29	36	43	50	80 [1]
8 [3]	15	22	29	36	43	50	80 [2]
8 [3.5]	15	22	29	36	43	50	80 [4]

Constant	FTE of Rank 1 Above	
8 [.5]	15 [.5]	80 [3]

PCS SUPROGRAM 4.2

1-5 [N,O,N,A,C] 6-7(PCS) [4,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [2]

Constant	(A) Primary Program Faculty FTE	(B) Lower Division Students	(C) Upper Division Students	Log of (A)	Log of (B)	Log of (C)	
8 [.5]	15	22	29	36	43	50	80 [1]
8 [1.0]	15	22	29	36	43	50	80 [2]
8 [1.5]	15	22	29	36	43	50	80 [4]

Constant	FTE of Rank 1 Above	
8 [1.5]	15 [.5]	80 [3]

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 4.5

NONACADEMIC STAFF

PCS SUPROGRAM 4.5

E-50

1-5 [N,O,N,A,C] 6-7(PCS) [4,5] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [0,5]

	Constant	(A) User Defined	(B) User Defined	(C) User Defined	Log of (A)	Log of (B)	Log of (C)	
1	8	15	22	29	36	43	50	80 [1]
2	8	15	22	29	36	43	50	80 [2]
4	8	15	22	29	36	43	50	80 [4]

	Constant	FTE of Rank 1 Above	
3	8	15	80 [3]

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ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 5.0 (STUDENT SERVICES) Page ____ of ____

NONACADEMIC STAFF

PCS SUPROGRAM 5.

E-50

1-5 [N,O,N,A,C] 6-7(PCS) [5,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [,]

	Constant	(A) Lower Division Students	(B) Upper Division Students	Log of (A)	Log of (B)	
8		15	22	29	36	80 [1]
8		15	22	29	36	80 [2]
8		15	22	29	36	80 [4]

	Constant	FTE of Rank 1 Above	
8		15	80 [3]

PCS SUPROGRAM 5.

1-5 [N,O,N,A,C] 6-7(PCS) [5,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [,]

	Constant	(A) Lower Division Students	(B) Upper Division Students	Log of (A)	Log of (B)	
8		15	22	29	36	80 [1]
8		15	22	29	36	80 [2]
8		15	22	29	36	80 [4]

	Constant	FTE of Rank 1 Above	
8		15	80 [3]

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 6.0 (INSTITUTIONAL SUPPORT)

NONACADEMIC STAFF

PCS SUPROGRAM 6.

E-50

1-5 [N,O,N,A,C] 6-7(PCS) [6,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [,]

Constant	(A) Primary Program Faculty FTE	(B) Total Enrollment	Log of (A)	Log of (B)	
8[ ]	15[ ]	22[ ]	29[ ]	36[ ]	80[1]
8[ ]	15[ ]	22[ ]	29[ ]	36[ ]	80[2]
8[ ]	15[ ]	22[ ]	29[ ]	36[ ]	80[4]

Constant	FTE of Rank 1 Above	
8[ ]	15[ ]	80[3]

PCS SUPROGRAM 6.

1-5 [N,O,N,A,C] 6-7(PCS) [6,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [,]

Constant	(A) Primary Program Faculty FTE	(B) Total Enrollment	Log of (A)	Log of (B)	
8[ ]	15[ ]	22[ ]	29[ ]	36[ ]	80[1]
8[ ]	15[ ]	22[ ]	29[ ]	36[ ]	80[2]
8[ ]	15[ ]	22[ ]	29[ ]	36[ ]	80[4]

Constant	FTE of Rank 1 Above	
8[ ]	15[ ]	80[3]

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 6.5

NONACADEMIC STAFF

PCS SUPROGRAM 6.5

E-50

1-5 [N,O,N,A,C] 6-7(PCS) [6,5] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [1,6]

	Constant	(A) Total Assignable Square Feet	Log of (A)
8		15	22	80 [1]
8		15	22	80 [2]
8		15	22	80 [4]

	Constant	FTE of Rank 1 Above
8		15	80 [3]

ESTIMATING EQUATIONS FOR PCS SUPPORT PROGRAM 7.0 (INDEPENDENT OPERATIONS) Page ____ of ____

NONACADEMIC STAFF

PCS SUPROGRAM 7.

E-50

1-5 [N,O,N,A,C] 6-7(PCS) [7,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [,]

	Constant	(A) User Defined	(B) User Defined	(C) User Defined	Log of (A)	Log of (B)	Log of (C)	
8		15	22	29	36	43	50	80 [1]
8		15	22	29	36	43	50	80 [2]
8		15	22	29	36	43	50	80 [4]

	Constant	FTE of Rank 1 Above	
8		15	80 [3]

PCS SUPROGRAM 7.

1-5 [N,O,N,A,C] 6-7(PCS) [7,] 71-72 [5,0] 73-74 [0,3] 75-76(SEQ.) [,]

	Constant	(A) User Defined	(B) User Defined	(C) User Defined	Log of (A)	Log of (B)	Log of (C)	
8		15	22	29	36	43	50	80 [1]
8		15	22	29	36	43	50	80 [2]
8		15	22	29	36	43	50	80 [4]

	Constant	FTE of Rank 1 Above	
8		15	80 [3]

ESTIMATING EQUATIONS FOR PCS 4.6 (ACADEMIC ADMINISTRATION and PERSONNEL DEVELOPMENT)

NONACADEMIC RANKS 1, 2, AND 4

1-5 [N,O,N,A,C] 6-7 [4,6] 71-72 [5,0] 73-74 [0,4] 75-76 [0,1]

E-50

	Constant	FTE Faculty	Log of FTE Faculty	Disc. #	Nonacademic Rank
8		15	22	77-78	80 [1]
8		15	22	77-78	80 [2]
8		15	22	77-78	80 [4]
8		15	22	77-78	80 [1]
8		15	22	77-78	80 [2]
8		15	22	77-78	80 [4]
8		15	22	77-78	80 [1]
8		15	22	77-78	80 [2]
8		15	22	77-78	80 [4]
8		15	22	77-78	80 [1]
8		15	22	77-78	80 [2]
8		15	22	77-78	80 [4]
8		15	22	77-78	80 [1]
8		15	22	77-78	80 [2]
8		15	22	77-78	80 [4]
8		15	22	77-78	80 [1]
8		15	22	77-78	80 [2]

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ESTIMATING EQUATIONS FOR PCS 4.6 (ACADEMIC ADMINISTRATION AND PERSONNEL DEVELOPMENT)

NONACADEMIC RANK 3

E-50

1-5 |N,O,N,A,C| 6-7 |4,6| 71-72 |5,0| 73-74 |0,4| 75-76 |0,1| 80 |3|

Constant	Nonacademic Staff 1	Academic Administrator FTE	Disc. #
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78

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ESTIMATING EQUATIONS FOR PCS 2.1 (INSTITUTES AND RESEARCH CENTERS)

NONACADEMIC RANKS 1, 2, and 4

1-5 [N,O,N,A,C] 6-7 [2,1] 71-72 [5,0] 73-74 [0,4] 75-76 [0,2]

E-50

Constant	(A) Faculty FTE In This PCS	Log Of (A)	Disc. #	Nonacademic Rank
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]
8	15	22	77-78	80 [4]
8	15	22	77-78	80 [1]
8	15	22	77-78	80 [2]

ESTIMATING EQUATIONS FOR PCS 2.1 (INSTITUTES AND RESEARCH CENTERS) Page ____ of ____

NONACADEMIC RANK 3

1-5 [N.O.N.A.C] 6-7 [2.1] 71-72 [5.0] 73-74 [0.4] 75-76 [0.2] 80 [3] E-50

Constant	Nonacademic Staff 1	Faculty FTE In This PCS	Disc. #
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78

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ESTIMATING EQUATIONS FOR PCS 3.2 (COMMUNITY SERVICE)

NONACADEMIC RANKS 1, 2, and 4

1-5 |N,O,N,A,C| 6-7 |3,2| 71-72 |5,0| 73-74 |0,4| 75-76 |0,5|

E-50

	Constant		(A) Faculty FTE In This PCS		Log Of (A)		Disc. #		Nonacademic Rank
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2
8		15		22		77-78		80	4
8		15		22		77-78		80	1
8		15		22		77-78		80	2

ESTIMATING EQUATIONS FOR PCS 3.2 (COMMUNITY SERVICE)

NONACADEMIC RANK 3

1-5 [N,O,N,A,C] 6-7 [3,2] 71-72 [5,0] 73-74 [0,4] 75-76 [0,5] 80 [3]

Constant	Nonacademic Staff 1	Faculty FTE In This PCS	Disc. #
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78
8	15	22	77-78

APPENDIX 1

LOGICAL SEQUENCE OF INPUTS

INPUT RECORDS FOR PREDICTION MODULE PART 1 (RP)

RECORD TYPE NO.	NAME
P-01	DATA SET DESIGNATIONS
P-02	INSTITUTIONAL DIMENSIONS
P-03	DATE/RUN PARAMETERS
P-04	YEARS/BASE PARAMETERS
P-05	INSTRUCTION SUBPROGRAM DATA INDICATORS
P-06	STUDENT LEVEL AGGREGATION FOR PCS 1.1/1.2 AND LIMITS OF OCCUPATIONAL AND VOCATIONAL INSTRUCTION (PCS 1.2)
P-07	CROSSOVER OF MAJORS TO DISCIPLINES FOR PCS 1.1/1.2
P-08	DISCIPLINE/DEPARTMENT NAMES
P-09	COURSE LEVEL NAMES
I-01	GENERAL ACADEMIC AND OCCUPATIONAL AND VOCATIONAL INSTRUCTION INDUCED COURSE LOAD MATRIX (PCS 1.1/1.2)
I-02	RATIO OF WEEKLY STUDENT CONTACT HOURS TO STUDENT CREDIT HOURS FOR PCS 1.1/1.2
I-03	AVERAGE SECTION SIZE FOR PCS 1.1/1.2
I-04	FACULTY FTE DISTRIBUTION FOR PCS 1.1/1.2
I-05	AVERAGE FACULTY LOAD FOR PCS 1.1/1.2
I-06	NONACADEMIC STAFF SALARY SCHEDULE FOR PCS PRIMARY PROGRAMS (1.0-3.0) AND ACADEMIC ADMINISTRATION AND PERSONNEL DEVELOPMENT (PCS 4.6)
I-07	ACADEMIC FACULTY SALARY SCHEDULES FOR PCS PRIMARY PROGRAMS (1.0-3.0)

RECORD TYPE NO.	NAME
I-08	GROWTH FACTORS FOR SALARY SCHEDULES
I-09	AVERAGE STUDENT CREDIT HOUR LOAD FOR PCS 1.1/1.2
I-10	INDUCED COURSE LOAD MATRICES FOR PCS SPECIAL SESSION AND EXTENSION (FOR CREDIT) INSTRUCTION SUBPROGRAMS (1.3 AND 1.4)
I-11	RATIO OF WEEKLY STUDENT CONTACT HOURS TO STUDENT CREDIT HOURS FOR PCS SPECIAL SESSION INSTRUCTION SUBPROGRAM (1.3)
I-12	AVERAGE SECTION SIZE FOR SPECIAL SESSION INSTRUCTION SUBPROGRAM (PCS 1.3)
I-13	DISTRIBUTION OF FACULTY CONTACT HOURS FOR SPECIAL SESSION INSTRUCTION SUBPROGRAM (PCS 1.3)
I-14	AVERAGE FACULTY LOAD FOR PCS SPECIAL SESSION INSTRUCTION SUBPROGRAM (1.3)
I-15	RATIO OF WEEKLY STUDENT CONTACT HOURS TO STUDENT CREDIT HOURS FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)
I-16	AVERAGE SECTION SIZE FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)
I-17	PERCENTAGE DISTRIBUTION OF FTE FACULTY FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)
I-18	AVERAGE FACULTY LOAD FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)
I-19	STUDENT ENROLLMENTS FOR PCS 1.1/1.2
I-20	STUDENT ENROLLMENTS FOR SPECIAL SESSION INSTRUCTION SUBPROGRAM (PCS 1.3)
I-21	STUDENT ENROLLMENTS FOR EXTENSION INSTRUCTION SUBPROGRAM (PCS 1.4)
E-40	RP PROGRAM ESTIMATION EQUATION COEFFICIENTS

INPUT RECORDS FOR PREDICTION MODULE PART 2 (RQ)

RECORD TYPE NO.	NAME
P-10	PROGRAM SWITCH
P-11	SUBPROGRAM EXECUTION PARAMETERS
I-22	PERCENTAGE DISTRIBUTION OF FTE FOR RESEARCH AND PUBLIC SERVICE SUBPROGRAMS (PCS 2.0-3.0)
I-23	NONACADEMIC STAFF SALARY SCHEDULE FOR PCS SUPPORT SUBPROGRAMS (PCS 4.0-7.0)
I-24	ACADEMIC ADMINISTRATORS SALARY SCHEDULE FOR PCS 4.6
I-25	CLASSROOM SPACE
I-26	CLASS LABORATORY SPACE
I-27	RESEARCH LABORATORY SPACE
I-28	OFFICE AND CONFERENCE SPACE
I-29	LIBRARY AND "OTHER" SPACE FACTORS
I-30	CONSTRUCTION FACTORS
I-31	LIBRARY VOLUME FACTORS
E-50	RQ PROGRAM ESTIMATION EQUATION COEFFICIENTS

REFERENCES

1. See A Resource Requirements Prediction Model (RRPM-1) --Programmer's Manual, NCHEMS Technical Report 22 (Boulder, Colorado: NCHEMS, 1971).

2. For a complete discussion on facilities planning see: Western Interstate Commission for Higher Education, Higher Education Facilities Planning and Management Manuals, Technical Report 17-6 (Boulder, Colorado: 1971), pp. 71-93.

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2M:1271:WICHE:HIRSCH:2B31

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